

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
HILLMAN, Jennifer L.
LAL, Preeti
TANG, Y. Tom
CORLEY, Neil C.
GUEGLER, Karl J.
BAUGHN, Mariah R.
PATTERSON, Chandra
BANDMAN, Olga
AU-YOUNG, Janice
GORSTONE, Gina A.
YUE, Henry
AZIMZAI, Yalda
REDDY, Roopa
LU, Dyung Aina M.
SHIH, Leo L.

<120> PHOSPHORYLATION EFFECTORS

<130> PF-0565 PCT

<140> To Be Assigned
<141> Herewith

<150> 09/123,494; unassigned; 09/152,814; unassigned; 09/173,482;
unassigned; 60/106,889; 60/109,093; 60/113,796;
<151> 1998-07-28; 1998-07-28; 1998-09-14; 1998-09-14; 1998-10-14;
1998-10-14; 1998-11-03; 1998-11-19; 1998-12-22

<160> 61

<170> PERL Program

<210> 1
<211> 300
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte Clone Number: 132240

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Met Glu Ser Pro Leu Glu Ser Gln Pro Leu Asp Ser Asp Arg Ser
1 5 10 15
Ile Lys Glu Ser Ser Phe Glu Glu Ser Asn Ile Glu Asp Pro Leu
20 25 30
Ile Val Thr Pro Asp Cys Gln Glu Lys Thr Ser Pro Lys Gly Val
35 40 45
Glu Asn Pro Ala Val Gln Glu Ser Asn Gln Lys Met Leu Gly Pro
50 55 60
Pro Leu Glu Val Leu Lys Thr Leu Ala Ser Lys Arg Asn Ala Val
65 70 75

Ala Phe Arg Ser Phe Asn Ser His Ile Asn Ala Ser Asn Asn Ser		
80	85	90
Glu Pro Ser Arg Met Asn Met Thr Ser Leu Asp Ala Met Asp Ile		
95	100	105
Ser Cys Ala Tyr Ser Gly Ser Tyr Pro Met Ala Ile Thr Pro Thr		
110	115	120
Gln Lys Arg Arg Ser Cys Met Pro His Gln Thr Pro Asn Gln Ile		
125	130	135
Lys Ser Gly Thr Pro Tyr Arg Thr Pro Lys Ser Val Arg Arg Gly		
140	145	150
Val Ala Pro Val Asp Asp Gly Arg Ile Leu Gly Thr Pro Asp Tyr		
155	160	165
Leu Ala Pro Glu Leu Leu Leu Gly Arg Ala His Gly Pro Ala Val		
170	175	180
Asp Trp Trp Ala Leu Gly Val Cys Leu Phe Glu Phe Leu Thr Gly		
185	190	195
Ile Pro Pro Phe Asn Asp Glu Thr Pro Gln Gln Val Phe Gln Asn		
200	205	210
Ile Leu Lys Arg Asp Ile Pro Trp Pro Glu Gly Glu Glu Lys Leu		
215	220	225
Ser Asp Asn Ala Gln Ser Ala Val Glu Ile Leu Leu Thr Ile Asp		
230	235	240
Asp Thr Lys Arg Ala Gly Met Lys Glu Leu Lys Arg His Pro Leu		
245	250	255
Phe Ser Asp Val Asp Trp Glu Asn Leu Gln His Gln Thr Met Pro		
260	265	270
Phe Ile Pro Gln Pro Asp Asp Glu Thr Asp Thr Ser Tyr Phe Glu		
275	280	285
Ala Arg Asn Thr Ala Gln His Leu Thr Val Ser Gly Phe Ser Leu		
290	295	300

<210> 2
<211> 147
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<213> Homo sapiens

<220>
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<223> Incyte Clone Number: 2180116

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Met Ala Ala Gln Arg Leu Gly Lys Arg Val Leu Ser Lys Leu Gln			
1	5	10	15
Ser Pro Ser Arg Ala Arg Gly Pro Gly Gly Ser Pro Gly Gly Met			
20	25	30	
Gln Lys Arg His Ala Arg Val Thr Val Lys Tyr Asp Arg Arg Glu			
35	40	45	
Leu Gln Arg Arg Leu Asp Val Glu Lys Trp Ile Asp Gly Arg Leu			
50	55	60	
Glu Glu Leu Tyr Arg Gly Met Glu Ala Asp Met Pro Asp Glu Ile			
65	70	75	
Asn Ile Asp Glu Leu Leu Glu Leu Ser Glu Glu Glu Arg Ser			
80	85	90	
Arg Lys Ile Gln Gly Leu Leu Lys Ser Cys Gly Lys Pro Val Glu			
95	100	105	

Asp Phe Ile Gln Glu Leu Leu Ala Lys Leu Gln Gly Leu His Arg
110 115 120
Gln Pro Gly Leu Arg Gln Pro Ser Pro Ser His Asp Gly Ser Leu
125 130 135
Ser Pro Leu Gln Asp Arg Ala Arg Thr Ala His Pro
140 145

<210> 3
<211> 431
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte Clone Number: 2197671

<400> 3
Met Ala His Ser Pro Val Gln Ser Gly Leu Pro Gly Met Gln Asn
1 5 10 15
Leu Lys Ala Asp Pro Glu Glu Leu Phe Thr Lys Leu Glu Lys Ile
20 25 30
Gly Lys Gly Ser Phe Gly Glu Val Phe Lys Gly Ile Asp Asn Arg
35 40 45
Thr Gln Lys Val Val Ala Ile Lys Ile Ile Asp Leu Glu Ala
50 55 60
Glu Asp Glu Ile Glu Asp Ile Gln Gln Glu Ile Thr Val Leu Ser
65 70 75
Gln Cys Asp Ser Pro Tyr Val Thr Lys Tyr Tyr Gly Ser Tyr Leu
80 85 90
Lys Asp Thr Lys Leu Trp Ile Ile Met Glu Tyr Leu Gly Gly
95 100 105
Ser Ala Leu Asp Leu Leu Glu Pro Gly Arg Leu Asp Glu Thr Gln
110 115 120
Ile Ala Thr Ile Leu Arg Glu Ile Leu Lys Gly Leu Asp Tyr Leu
125 130 135
His Ser Glu Lys Lys Ile His Arg Asp Ile Lys Ala Ala Asn Val
140 145 150
Leu Leu Ser Glu His Gly Glu Val Lys Leu Ala Asp Phe Gly Val
155 160 165
Ala Gly Gln Leu Thr Asp Thr Gln Ile Lys Arg Asn Thr Phe Val
170 175 180
Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Lys Gln Ser Ala
185 190 195
Tyr Asp Ser Lys Ala Asp Ile Trp Ser Leu Gly Ile Thr Ala Ile
200 205 210
Glu Leu Ala Arg Gly Glu Pro Pro His Ser Glu Leu His Pro Met
215 220 225
Lys Val Leu Phe Leu Ile Pro Lys Asn Asn Pro Pro Thr Leu Glu
230 235 240
Gly Asn Tyr Ser Lys Pro Leu Lys Glu Phe Val Glu Ala Cys Leu
245 250 255
Asn Lys Glu Pro Ser Phe Arg Pro Thr Ala Lys Glu Leu Leu Lys
260 265 270
His Lys Phe Ile Leu Arg Asn Ala Lys Lys Thr Ser Tyr Leu Thr
275 280 285

Glu	Leu	Ile	Asp	Arg	Tyr	Lys	Arg	Trp	Lys	Ala	Glu	Gln	Ser	His
290						295					300			
Asp	Asp	Ser	Ser	Ser	Glu	Asp	Ser	Asp	Ala	Glu	Thr	Asp	Gly	Gln
					305				310				315	
Ala	Ser	Gly	Gly	Ser	Asp	Ser	Gly	Asp	Trp	Ile	Phe	Thr	Ile	Arg
					320				325				330	
Glu	Lys	Asp	Pro	Lys	Asn	Leu	Glu	Asn	Gly	Ala	Leu	Gln	Pro	Ser
					335				340				345	
Asp	Leu	Asp	Arg	Asn	Lys	Met	Lys	Asp	Ile	Pro	Lys	Arg	Pro	Phe
					350				355				360	
Ser	Gln	Cys	Leu	Ser	Thr	Ile	Ile	Ser	Pro	Leu	Phe	Ala	Glu	Leu
					365				370				375	
Lys	Glu	Lys	Ser	Gln	Ala	Cys	Gly	Gly	Asn	Leu	Gly	Ser	Ile	Glu
					380				385				390	
Glu	Leu	Arg	Gly	Ala	Ile	Tyr	Leu	Ala	Glu	Glu	Ala	Cys	Pro	Gly
					395				400				405	
Ile	Ser	Asp	Thr	Met	Val	Ala	Gln	Leu	Val	Gln	Arg	Leu	Gln	Arg
					410				415				420	
Tyr	Ser	Leu	Ser	Gly	Gly	Gly	Thr	Ser	Ser	His				
					425				430					

<210> 4
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 2594943

<400> 4															
Met	Asn	Cys	Arg	Ser	Glu	Val	Leu	Glu	Val	Ser	Val	Glu	Gly	Arg	
1					5				10				15		
Gln	Val	Glu	Glu	Ala	Met	Leu	Ala	Val	Leu	His	Thr	Val	Leu	Leu	
					20				25				30		
His	Arg	Ser	Thr	Gly	Lys	Phe	His	Tyr	Lys	Lys	Glu	Gly	Thr	Tyr	
					35				40				45		
Ser	Ile	Gly	Thr	Val	Gly	Thr	Gln	Asp	Val	Asp	Cys	Asp	Phe	Ile	
					50				55				60		
Asp	Phe	Thr	Tyr	Val	Arg	Val	Ser	Ser	Glu	Glu	Leu	Asp	Arg	Ala	
					65				70				75		
Leu	Arg	Lys	Val	Val	Gly	Glu	Phe	Lys	Asp	Ala	Leu	Arg	Asn	Ser	
					80				85				90		
Gly	Gly	Asp	Gly	Leu	Gly	Gln	Met	Ser	Leu	Glu	Phe	Tyr	Gln	Lys	
					95				100				105		
Lys	Lys	Ser	Arg	Trp	Pro	Phe	Ser	Asp	Glu	Cys	Ile	Pro	Trp	Glu	
					110				115				120		
Val	Trp	Thr	Val	Lys	Val	His	Val	Val	Ala	Leu	Ala	Thr	Glu	Gln	
					125				130				135		
Glu	Arg	Gln	Ile	Cys	Arg	Glu	Lys	Val	Gly	Glu	Lys	Leu	Cys	Glu	
					140				145				150		
Lys	Ile	Ile	Asn	Ile	Val	Glu	Val	Met	Asn	Arg	His	Glu	Tyr	Leu	
					155				160				165		
Pro	Lys	Met	Pro	Thr	Gln	Ser	Glu	Val	Asp	Asn	Val	Phe	Asp	Thr	
					170				175				180		

Gly Leu Arg Asp Val Gln Pro Tyr Leu Tyr Lys Ile Ser Phe Gln
185 190 195
Ile Thr Asp Ala Leu Gly Thr Ser Val Thr Thr Thr Met Arg Arg
200 205 210
Leu Ile Lys Asp Thr Leu Ala Leu
215

<210> 5
<211> 474
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1513871

<400> 5
Met Ile Met Asn Lys Met Lys Asn Phe Lys Arg Arg Phe Ser Leu
1 5 10 15
Ser Val Pro Arg Thr Glu Thr Ile Glu Glu Ser Leu Ala Glu Phe
20 25 30
Thr Glu Gln Phe Asn Gln Leu His Asn Arg Arg Asn Glu Asn Leu
35 40 45
Gln Leu Gly Pro Leu Gly Arg Asp Pro Pro Gln Glu Cys Ser Thr
50 55 60
Phe Ser Pro Thr Asp Ser Gly Glu Glu Pro Gly Gln Leu Ser Pro
65 70 75
Gly Val Gln Phe Gln Arg Arg Gln Asn Gln Arg Arg Phe Ser Met
80 85 90
Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met Asp Ile Arg Leu
95 100 105
Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser Pro Asp Leu
110 115 120
Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu Ser Asp
125 130 135
Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys Leu
140 145 150
Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu
155 160 165
Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu
170 175 180
Glu Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys
185 190 195
Asn Leu Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His
200 205 210
Thr Asp Arg Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp
215 220 225
Leu Lys Gln Tyr Leu Asp His Cys Gly Asn Leu Met Ser Met His
230 235 240
Asn Val Lys Ile Phe Met Phe Gln Leu Leu Arg Gly Leu Ala Tyr
245 250 255
Cys His His Arg Lys Ile Leu His Arg Asp Leu Lys Pro Gln Asn
260 265 270
Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe Gly
275 280 285

Leu Ala Arg Ala Lys Ser Val Pro Thr Lys Thr Tyr Ser Asn Glu
 290 295 300
 Val Val Thr Leu Trp Tyr Arg Pro Pro Asp Val Leu Leu Gly Ser
 305 310 315
 Thr Glu Tyr Ser Thr Pro Ile Asp Met Trp Gly Val Gly Cys Ile
 320 325 330
 His Tyr Glu Met Ala Thr Gly Arg Pro Leu Phe Pro Gly Ser Thr
 335 340 345
 Val Lys Glu Glu Leu His Leu Ile Phe Arg Leu Leu Gly Thr Pro
 350 355 360
 Thr Glu Glu Thr Trp Pro Gly Val Thr Ala Phe Ser Glu Phe Arg
 365 370 375
 Thr Tyr Ser Phe Pro Cys Tyr Leu Pro Gln Pro Leu Ile Asn His
 380 385 390
 Ala Pro Arg Leu Asp Thr Asp Gly Ile His Leu Leu Ser Ser Leu
 395 400 405
 Leu Leu Tyr Glu Ser Lys Ser Arg Met Ser Ala Glu Ala Ala Leu
 410 415 420
 Ser His Ser Tyr Phe Arg Ser Leu Gly Glu Arg Val His Gln Leu
 425 430 435
 Glu Asp Thr Ala Ser Ile Phe Ser Leu Lys Glu Ile Gln Leu Gln
 440 445 450
 Lys Asp Pro Gly Tyr Arg Gly Leu Ala Phe Gln Gln Pro Gly Arg
 455 460 465
 Gly Lys Asn Arg Arg Gln Ser Ile Phe
 470

<210> 6
 <211> 540
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 156108

<400> 6
 Met Asn Gly Glu Ala Ile Cys Ser Ala Leu Pro Thr Ile Pro Tyr
 1 5 10 15
 His Lys Leu Ala Asp Leu Arg Tyr Leu Ser Arg Gly Ala Ser Gly
 20 25 30
 Thr Val Ser Ser Ala Arg His Ala Asp Trp Arg Val Gln Val Ala
 35 40 45
 Val Lys His Leu His Ile His Thr Pro Leu Leu Asp Ser Glu Arg
 50 55 60
 Lys Asp Val Leu Arg Glu Ala Glu Ile Leu His Lys Ala Arg Phe
 65 70 75
 Ser Tyr Ile Leu Pro Ile Leu Gly Ile Cys Asn Glu Pro Glu Phe
 80 85 90
 Leu Gly Ile Val Thr Glu Tyr Met Pro Asn Gly Ser Leu Asn Glu
 95 100 105
 Leu Leu His Arg Lys Thr Glu Tyr Pro Asp Val Ala Trp Pro Leu
 110 115 120
 Arg Phe Arg Ile Leu His Glu Ile Ala Leu Gly Val Asn Tyr Leu

	125	130	135
His Asn Met Thr	Pro Pro Leu Leu His	His Asp Leu Lys Thr	Gln
	140	145	150
Asn Ile Leu Leu Asp Asn Glu Phe His	Val Lys Ile Ala Asp Phe		
	155	160	165
Gly Leu Ser Lys Trp Arg Met Met Ser	Leu Ser Gln Ser Arg Ser		
	170	175	180
Ser Lys Ser Ala Pro Glu Gly Gly Thr	Ile Ile Tyr Met Pro Pro		
	185	190	195
Glu Asn Tyr Glu Pro Gly Gln Lys Ser	Arg Ala Ser Ile Lys His		
	200	205	210
Asp Ile Tyr Ser Tyr Ala Val Ile Thr	Trp Glu Val Leu Ser Arg		
	215	220	225
Lys Gln Pro Phe Glu Asp Val Thr Asn	Pro Leu Gln Ile Met Tyr		
	230	235	240
Ser Val Ser Gln Gly His Arg Pro Val	Ile Asn Glu Glu Ser Leu		
	245	250	255
Pro Tyr Asp Ile Pro His Arg Ala Arg	Met Ile Ser Leu Ile Glu		
	260	265	270
Ser Gly Trp Ala Gln Asn Pro Asp Glu	Arg Pro Ser Phe Leu Lys		
	275	280	285
Cys Leu Ile Glu Leu Glu Pro Val Leu	Arg Thr Phe Glu Glu Ile		
	290	295	300
Thr Phe Leu Glu Ala Val Ile Gln Leu	Lys Lys Thr Lys Leu Gln		
	305	310	315
Ser Val Ser Ser Ala Ile His Leu Cys	Asp Lys Lys Lys Met Glu		
	320	325	330
Leu Ser Leu Asn Ile Pro Val Asn His	Gly Pro Gln Glu Glu Ser		
	335	340	345
Cys Gly Ser Ser Gln Leu His Glu Asn	Ser Gly Ser Pro Glu Thr		
	350	355	360
Ser Arg Ser Leu Pro Ala Pro Gln Asp	Asn Asp Phe Leu Ser Arg		
	365	370	375
Lys Ala Gln Asp Cys Tyr Phe Met Lys	Leu His His Cys Pro Gly		
	380	385	390
Asn His Ser Trp Asp Ser Thr Ile Ser	Gly Ser Gln Arg Ala Ala		
	395	400	405
Phe Cys Asp His Lys Thr Thr Pro Cys	Ser Ser Ala Ile Ile Asn		
	410	415	420
Pro Leu Ser Thr Ala Gly Asn Ser Glu	Arg Leu Gln Pro Gly Ile		
	425	430	435
Ala Gln Gln Trp Ile Gln Ser Lys Arg	Glu Asp Ile Val Asn Gln		
	440	445	450
Met Thr Glu Ala Cys Leu Asn Gln Ser	Leu Asp Ala Leu Leu Ser		
	455	460	465
Arg Asp Leu Ile Met Lys Glu Asp Tyr	Glu Leu Val Ser Thr Lys		
	470	475	480
Pro Thr Arg Thr Ser Lys Val Arg Gln	Leu Leu Asp Thr Thr Asp		
	485	490	495
Ile Gln Gly Glu Glu Phe Ala Lys Val	Ile Val Gln Lys Leu Lys		
	500	505	510
Asp Asn Lys Gln Met Gly Leu Gln Pro	Tyr Pro Glu Ile Leu Val		
	515	520	525
Val Ser Arg Ser Pro Ser Leu Asn Leu	Leu Gln Asn Lys Ser Met		
	530	535	540

<210> 7
<211> 454
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 2883243

<400> 7

Met	Tyr	Asn	Thr	Val	Trp	Asn	Met	Glu	Asp	Leu	Asp	Leu	Glu	Tyr
1				5				10					15	
Ala	Lys	Thr	Asp	Ile	Asn	Cys	Gly	Thr	Asp	Leu	Met	Phe	Tyr	Ile
				20					25				30	
Glu	Met	Asp	Pro	Pro	Ala	Leu	Pro	Pro	Lys	Pro	Pro	Lys	Pro	Thr
				35					40				45	
Thr	Val	Ala	Asn	Asn	Gly	Met	Asn	Asn	Asn	Met	Ser	Leu	Gln	Asp
				50					55				60	
Ala	Glu	Trp	Tyr	Trp	Gly	Asp	Ile	Ser	Arg	Glu	Glu	Val	Asn	Glu
				65				70					75	
Lys	Leu	Arg	Asp	Thr	Ala	Asp	Gly	Thr	Phe	Leu	Val	Arg	Asp	Ala
				80					85				90	
Ser	Thr	Lys	Met	His	Gly	Asp	Tyr	Thr	Leu	Thr	Leu	Arg	Lys	Gly
				95				100					105	
Gly	Asn	Asn	Lys	Leu	Ile	Lys	Ile	Phe	His	Arg	Asp	Gly	Lys	Tyr
				110				115					120	
Gly	Phe	Ser	Asp	Pro	Leu	Thr	Phe	Ser	Ser	Val	Val	Glu	Leu	Ile
				125				130					135	
Asn	His	Tyr	Arg	Asn	Glu	Ser	Leu	Ala	Gln	Tyr	Asn	Pro	Lys	Leu
				140				145					150	
Asp	Val	Lys	Leu	Leu	Tyr	Pro	Val	Ser	Lys	Tyr	Gln	Gln	Asp	Gln
				155				160					165	
Val	Val	Lys	Glu	Asp	Asn	Ile	Glu	Ala	Val	Gly	Lys	Lys	Leu	His
				170				175					180	
Glu	Tyr	Asn	Thr	Gln	Phe	Gln	Glu	Lys	Ser	Arg	Glu	Tyr	Asp	Arg
				185				190					195	
Leu	Tyr	Glu	Glu	Tyr	Thr	Arg	Thr	Ser	Gln	Glu	Ile	Gln	Met	Lys
				200				205					210	
Arg	Thr	Ala	Ile	Glu	Ala	Phe	Asn	Glu	Thr	Ile	Lys	Ile	Phe	Glu
				215				220					225	
Glu	Gln	Cys	Gln	Thr	Gln	Glu	Arg	Tyr	Ser	Lys	Glu	Tyr	Ile	Glu
				230				235					240	
Lys	Phe	Lys	Arg	Glu	Gly	Asn	Glu	Lys	Glu	Ile	Gln	Arg	Ile	Met
				245				250					255	
His	Asn	Tyr	Asp	Lys	Leu	Lys	Ser	Arg	Ile	Ser	Glu	Ile	Ile	Asp
				260				265					270	
Ser	Arg	Arg	Arg	Leu	Glu	Glu	Asp	Leu	Lys	Lys	Gln	Ala	Ala	Glu
				275				280					285	
Tyr	Arg	Glu	Ile	Asp	Lys	Arg	Met	Asn	Ser	Ile	Lys	Pro	Asp	Leu
				290				295					300	
Ile	Gln	Leu	Arg	Lys	Thr	Arg	Asp	Gln	Tyr	Leu	Met	Trp	Leu	Thr
				305				310					315	
Gln	Lys	Gly	Val	Arg	Gln	Lys	Lys	Leu	Asn	Glu	Trp	Leu	Gly	Asn
				320				325					330	
Glu	Asn	Thr	Glu	Asp	Gln	Tyr	Ser	Leu	Val	Glu	Asp	Asp	Glu	Asp
				335				340					345	

Leu Pro His His Asp Glu Lys Thr Trp Asn Val Gly Ser Ser Asn
 350 355 360
 Arg Asn Lys Ala Glu Asn Leu Leu Arg Gly Lys Arg Asp Gly Thr
 365 370 375
 Phe Leu Val Arg Glu Ser Ser Lys Gln Gly Cys Tyr Ala Cys Ser
 380 385 390
 Val Val Val Asp Gly Glu Val Lys His Cys Val Ile Asn Lys Thr
 395 400 405
 Ala Thr Gly Tyr Gly Phe Ala Glu Pro Tyr Asn Leu Tyr Ser Ser
 410 415 420
 Leu Lys Glu Leu Val Leu His Tyr Gln His Thr Ser Leu Val Gln
 425 430 435
 His Asn Asp Ser Leu Asn Val Thr Leu Ala Tyr Pro Val Tyr Ala
 440 445 450
 Gln Gln Arg Arg

<210> 8
 <211> 502
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 3173355

<400> 8

Met	Phe	Gly	Thr	Leu	Leu	Leu	Tyr	Cys	Phe	Phe	Leu	Ala	Thr	Val
1				5					10				15	
Pro	Ala	Leu	Ala	Glu	Thr	Gly	Gly	Glu	Arg	Gln	Leu	Ser	Pro	Glu
				20					25				30	
Lys	Ser	Glu	Ile	Trp	Gly	Pro	Gly	Leu	Lys	Ala	Asp	Val	Val	Leu
				35					40				45	
Pro	Ala	Arg	Tyr	Phe	Tyr	Ile	Gln	Ala	Val	Asp	Thr	Ser	Gly	Asn
				50					55				60	
Lys	Phe	Thr	Ser	Ser	Pro	Gly	Glu	Lys	Val	Phe	Gln	Val	Lys	Val
				65					70				75	
Ser	Ala	Pro	Glu	Glu	Gln	Phe	Thr	Arg	Val	Gly	Val	Gln	Val	Leu
				80					85				90	
Asp	Arg	Lys	Asp	Gly	Ser	Phe	Ile	Val	Arg	Tyr	Arg	Met	Tyr	Ala
				95					100				105	
Ser	Tyr	Lys	Asn	Leu	Lys	Val	Glu	Ile	Lys	Phe	Gln	Gly	Gln	His
				110					115				120	
Val	Ala	Lys	Ser	Pro	Tyr	Ile	Leu	Lys	Gly	Pro	Val	Tyr	His	Glu
				125					130				135	
Asn	Cys	Asp	Cys	Pro	Leu	Gln	Asp	Ser	Ala	Ala	Trp	Leu	Arg	Glu
				140					145				150	
Met	Asn	Cys	Pro	Glu	Thr	Ile	Ala	Gln	Ile	Gln	Arg	Asp	Leu	Ala
				155					160				165	
His	Phe	Pro	Ala	Val	Asp	Pro	Glu	Lys	Ile	Ala	Val	Glu	Ile	Pro
				170					175				180	
Lys	Arg	Phe	Gly	Gln	Arg	Gln	Ser	Leu	Cys	His	Tyr	Thr	Leu	Lys
				185					190				195	
Asp	Asn	Lys	Val	Tyr	Ile	Lys	Thr	His	Gly	Glu	His	Val	Gly	Phe
				200					205				210	
Arg	Ile	Phe	Met	Asp	Ala	Ile	Leu	Leu	Ser	Leu	Thr	Arg	Lys	Val

215	220	225
Lys Met Pro Asp Val Glu Leu Phe Val	Asn Leu Gly Asp Trp	Pro
230	235	240
Leu Glu Lys Lys Lys Ser Asn Ser Asn	Ile His Pro Ile Phe Ser	
245	250	255
Trp Cys Gly Ser Thr Asp Ser Lys Asp	Ile Val Met Pro Thr Tyr	
260	265	270
Asp Leu Thr Asp Ser Val Leu Glu Thr	Met Gly Arg Val Ser Leu	
275	280	285
Asp Met Met Ser Val Gln Ala Asn Thr	Gly Pro Pro Trp Glu Ser	
290	295	300
Lys Asn Ser Thr Ala Val Trp Arg Gly	Arg Asp Ser Arg Lys Glu	
305	310	315
Arg Leu Glu Leu Val Lys Leu Ser Arg	Lys His Pro Glu Leu Ile	
320	325	330
Asp Ala Ala Phe Thr Asn Phe Phe Phe	Phe Lys His Asp Glu Asn	
335	340	345
Leu Tyr Gly Pro Ile Val Lys His Ile	Ser Phe Phe Asp Phe Phe	
350	355	360
Lys His Lys Tyr Gln Ile Asn Ile Asp	Gly Thr Val Ala Ala Tyr	
365	370	375
Arg Leu Pro Tyr Leu Leu Val Gly Asp	Ser Val Val Leu Lys Gln	
380	385	390
Asp Ser Ile Tyr Tyr Glu His Phe Tyr	Asn Glu Leu Gln Pro Trp	
395	400	405
Lys His Tyr Ile Pro Val Lys Ser Asn	Leu Ser Asp Leu Leu Glu	
410	415	420
Lys Leu Lys Trp Ala Lys Asp His Asp	Glu Glu Ala Lys Lys Ile	
425	430	435
Ala Lys Ala Gly Gln Glu Phe Ala Arg	Asn Asn Leu Met Gly Asp	
440	445	450
Asp Ile Phe Cys Tyr Tyr Phe Lys Leu	Phe Gln Glu Tyr Ala Asn	
455	460	465
Leu Gln Val Ser Glu Pro Gln Ile Arg	Glu Gly Met Lys Arg Val	
470	475	480
Glu Pro Gln Thr Glu Asp Asp Leu Phe	Pro Cys Thr Cys His Arg	
485	490	495
Lys Lys Thr Lys Asp Glu Leu		
500		

<210> 9
<211> 282
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 5116906

<400> 9
Met Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr
1 5 10 15
Pro Pro Phe Trp Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile
20 25 30
Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val
35 40 45

Thr Pro Glu Ala Lys Asp Leu Ile Asn Lys Met Leu Thr Ile Asn		
50	55	60
Pro Ala Lys Arg Ile Thr Ala Ser Glu Ala Leu Lys His Pro Trp		
65	70	75
Ile Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln Glu		
80	85	90
Thr Val Asp Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys		
95	100	105
Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala		
110	115	120
Ala Lys Ser Leu Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr		
125	130	135
Glu Ser Ser Asn Thr Thr Ile Glu Asp Glu Asp Val Lys Ala Arg		
140	145	150
Lys Gln Glu Ile Ile Lys Val Thr Glu Gln Leu Ile Glu Ala Ile		
155	160	165
Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly		
170	175	180
Leu Thr Ala Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly		
185	190	195
Met Asp Phe His Arg Phe Tyr Phe Glu Asn Ala Leu Ser Lys Ser		
200	205	210
Asn Lys Pro Ile His Thr Ile Ile Leu Asn Pro His Val His Leu		
215	220	225
Val Gly Asp Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln		
230	235	240
Tyr Met Asp Gly Ser Gly Met Pro Lys Thr Met Gln Ser Glu Glu		
245	250	255
Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Gln Asn Val His		
260	265	270
Phe His Arg Ser Gly Ser Pro Thr Val Pro Ile Asn		
275	280	

<210> 10
<211> 510
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 940589

<400> 10
Met Lys Ala Asp Ile Lys Ile Trp Ile Leu Thr Gly Asp Lys Gln
1 5 10 15
Glu Thr Ala Ile Asn Ile Gly His Ser Cys Lys Leu Leu Lys Lys
20 25 30
Asn Met Gly Met Ile Val Ile Asn Glu Gly Ser Leu Asp Ser Phe
35 40 45
Ser Asn Thr Gln Asn Ser Arg Lys Glu Ala Val Leu Leu Ala Lys
50 55 60
Met Lys His Pro Asn Ile Val Ala Phe Lys Glu Ser Phe Glu Ala
65 70 75
Glu Gly His Leu Tyr Ile Val Met Glu Tyr Cys Asp Gly Gly Asp
80 85 90

Leu Met Gln Lys Ile Lys Gln Gln Lys Gly Lys Leu Phe Pro Glu
 95 100 105
 Asp Met Ile Leu Asn Trp Phe Thr Gln Met Cys Leu Gly Val Asn
 110 115 120
 His Ile His Lys Lys Arg Val Leu His Arg Asp Ile Lys Ser Lys
 125 130 135
 Asn Ile Phe Leu Thr Gln Asn Gly Lys Val Lys Leu Gly Asp Phe
 140 145 150
 Gly Ser Ala Arg Leu Leu Ser Asn Pro Met Ala Phe Ala Cys Thr
 155 160 165
 Tyr Val Gly Thr Pro Tyr Tyr Val Pro Pro Glu Ile Trp Glu Asn
 170 175 180
 Leu Pro Tyr Asn Asn Lys Ser Asp Ile Trp Ser Leu Gly Cys Ile
 185 190 195
 Leu Tyr Glu Leu Cys Thr Leu Lys His Pro Phe Gln Ala Asn Ser
 200 205 210
 Trp Lys Asn Leu Ile Leu Lys Val Cys Gln Gly Cys Ile Ser Pro
 215 220 225
 Leu Pro Ser His Tyr Ser Tyr Glu Leu Gln Phe Leu Val Lys Gln
 230 235 240
 Met Phe Lys Arg Asn Pro Ser His Arg Pro Ser Ala Thr Thr Leu
 245 250 255
 Leu Ser Arg Gly Ile Val Ala Arg Leu Val Gln Lys Cys Leu Pro
 260 265 270
 Pro Glu Ile Ile Met Glu Tyr Gly Glu Glu Val Leu Glu Glu Ile
 275 280 285
 Lys Asn Ser Lys His Asn Thr Pro Arg Lys Lys Thr Asn Pro Ser
 290 295 300
 Arg Ile Arg Ile Ala Leu Gly Asn Glu Ala Ser Thr Val Gln Glu
 305 310 315
 Glu Glu Gln Asp Arg Lys Gly Ser His Thr Asp Leu Glu Ser Ile
 320 325 330
 Asn Glu Asn Leu Val Glu Ser Ala Leu Arg Arg Val Asn Arg Glu
 335 340 345
 Glu Lys Gly Asn Lys Ser Val His Leu Arg Lys Ala Ser Ser Pro
 350 355 360
 Asn Leu His Arg Arg Gln Trp Glu Lys Asn Val Pro Asn Thr Ala
 365 370 375
 Leu Thr Ala Leu Glu Asn Ala Ser Ile Leu Thr Ser Ser Leu Thr
 380 385 390
 Ala Glu Asp Asp Arg Gly Gly Ser Val Ile Lys Tyr Ser Lys Asn
 395 400 405
 Thr Thr Arg Lys Gln Trp Leu Lys Glu Thr Pro Asp Thr Leu Leu
 410 415 420
 Asn Ile Leu Lys Asn Ala Asp Leu Ser Leu Ala Phe Gln Thr Tyr
 425 430 435
 Thr Ile Tyr Arg Pro Gly Ser Glu Gly Phe Leu Lys Gly Pro Leu
 440 445 450
 Ser Glu Glu Thr Glu Ala Ser Asp Ser Val Asp Gly Gly His Asp
 455 460 465
 Ser Val Ile Leu Asp Pro Glu Arg Leu Glu Pro Gly Leu Asp Glu
 470 475 480
 Glu Asp Thr Asp Phe Glu Glu Glu Asp Asp Asn Pro Asp Trp Val
 485 490 495
 Ser Glu Leu Lys Lys Arg Ala Gly Trp Gln Gly Leu Cys Asp Arg
 500 505 510

<210> 11
<211> 248
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 304421

<400> 11

Met Ala Glu Thr Ser Leu Pro Glu Leu Gly Gly Glu Asp Lys Ala			
1	5	10	15
Thr Pro Cys Pro Ser Ile Leu Glu Leu Glu Glu Leu Leu Arg Ala			
20	25	30	
Gly Lys Ser Ser Cys Ser Arg Val Asp Glu Val Trp Pro Asn Leu			
35	40	45	
Phe Ile Gly Asp Ala Met Asp Ser Leu Gln Lys Gln Asp Leu Arg			
50	55	60	
Arg Pro Lys Ile His Gly Ala Val Gln Ala Ser Pro Tyr Gln Pro			
65	70	75	
Pro Thr Leu Ala Ser Leu Gln Arg Leu Leu Trp Val Arg Gln Ala			
80	85	90	
Ala Thr Leu Asn His Ile Asp Glu Val Trp Pro Ser Leu Phe Leu			
95	100	105	
Gly Asp Ala Tyr Ala Ala Arg Asp Lys Ser Lys Leu Ile Gln Leu			
110	115	120	
Gly Ile Thr His Val Val Asn Ala Ala Gly Lys Phe Gln Val			
125	130	135	
Asp Thr Gly Ala Lys Phe Tyr Arg Gly Met Ser Leu Glu Tyr Tyr			
140	145	150	
Gly Ile Glu Ala Asp Asp Asn Pro Phe Phe Asp Leu Ser Val Tyr			
155	160	165	
Phe Leu Pro Val Ala Arg Tyr Ile Arg Ala Ala Leu Ser Val Pro			
170	175	180	
Gln Gly Arg Val Leu Val His Cys Ala Met Gly Val Ser Arg Ser			
185	190	195	
Ala Thr Leu Val Leu Ala Phe Leu Met Ile Tyr Glu Asn Met Thr			
200	205	210	
Leu Val Glu Ala Ile Gln Thr Val Gln Ala His Arg Asn Ile Cys			
215	220	225	
Pro Asn Ser Gly Phe Leu Arg Gln Leu Gln Val Leu Asp Asn Arg			
230	235	240	
Leu Gly Arg Glu Thr Gly Arg Phe			
245			

<210> 12
<211> 810
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1213802

<400> 12

Met	Pro	Asn	Gln	Gly	Glu	Asp	Cys	Tyr	Phe	Phe	Phe	Tyr	Ser	Thr
1				5					10				15	
Cys	Thr	Lys	Gly	Asp	Ser	Cys	Pro	Phe	Arg	His	Cys	Glu	Ala	Ala
					20				25				30	
Ile	Gly	Asn	Glu	Thr	Val	Cys	Thr	Leu	Trp	Gln	Glu	Gly	Arg	Cys
					35				40			45		
Phe	Arg	Gln	Val	Cys	Arg	Phe	Arg	His	Met	Glu	Ile	Asp	Lys	Lys
					50				55			60		
Arg	Ser	Glu	Ile	Pro	Cys	Tyr	Trp	Glu	Asn	Gln	Pro	Thr	Gly	Cys
					65				70			75		
Gln	Lys	Leu	Asn	Cys	Ala	Phe	His	His	Asn	Arg	Gly	Arg	Tyr	Val
					80				85			90		
Asp	Gly	Leu	Phe	Leu	Pro	Pro	Ser	Lys	Thr	Val	Leu	Pro	Thr	Val
					95				100			105		
Pro	Glu	Ser	Pro	Glu	Glu	Glu	Val	Lys	Ala	Ser	Gln	Leu	Ser	Val
					110				115			120		
Gln	Gln	Asn	Lys	Leu	Ser	Val	Gln	Ser	Asn	Pro	Ser	Pro	Gln	Leu
					125				130			135		
Arg	Ser	Val	Met	Lys	Val	Glu	Ser	Ser	Glu	Asn	Val	Pro	Ser	Pro
					140				145			150		
Thr	His	Pro	Pro	Val	Val	Ile	Asn	Ala	Ala	Asp	Asp	Asp	Glu	Asp
					155				160			165		
Asp	Asp	Asp	Gln	Phe	Ser	Glu	Glu	Gly	Asp	Glu	Thr	Lys	Thr	Pro
					170				175			180		
Thr	Leu	Gln	Pro	Thr	Pro	Glu	Val	His	Asn	Gly	Leu	Arg	Val	Thr
					185				190			195		
Ser	Val	Arg	Lys	Pro	Ala	Val	Asn	Ile	Lys	Gln	Gly	Glu	Cys	Leu
					200				205			210		
Asn	Phe	Gly	Ile	Lys	Thr	Leu	Glu	Ile	Lys	Ser	Lys	Lys	Met	
					215				220			225		
Lys	Glu	Lys	Ser	Lys	Lys	Gln	Gly	Glu	Gly	Ser	Ser	Gly	Val	Ser
					230				235			240		
Ser	Leu	Leu	Leu	His	Pro	Glu	Pro	Val	Pro	Gly	Pro	Glu	Lys	Glu
					245				250			255		
Asn	Val	Arg	Thr	Val	Val	Arg	Thr	Val	Thr	Leu	Ser	Thr	Lys	Gln
					260				265			270		
Gly	Glu	Glu	Pro	Leu	Val	Arg	Leu	Ser	Leu	Thr	Glu	Arg	Leu	Gly
					275				280			285		
Lys	Arg	Lys	Phe	Ser	Ala	Gly	Gly	Asp	Ser	Asp	Pro	Pro	Leu	Lys
					290				295			300		
Arg	Ser	Leu	Ala	Gln	Arg	Leu	Gly	Lys	Lys	Val	Glu	Ala	Pro	Glu
					305				310			315		
Thr	Asn	Ile	Asp	Lys	Thr	Pro	Lys	Lys	Ala	Gln	Val	Ser	Lys	Ser
					320				325			330		
Leu	Lys	Glu	Arg	Leu	Gly	Met	Ser	Ala	Asp	Pro	Asp	Asn	Glu	Asp
					335				340			345		
Ala	Thr	Asp	Lys	Val	Asn	Lys	Val	Gly	Glu	Ile	His	Val	Lys	Thr
					350				355			360		
Leu	Glu	Glu	Ile	Leu	Leu	Glu	Arg	Ala	Ser	Gln	Lys	Arg	Gly	Glu
					365				370			375		
Leu	Gln	Thr	Lys	Leu	Lys	Thr	Glu	Gly	Pro	Ser	Lys	Thr	Asp	Asp
					380				385			390		
Ser	Thr	Ser	Gly	Ala	Arg	Ser	Ser	Ser	Thr	Ile	Arg	Ile	Lys	Thr
					395				400			405		
Phe	Ser	Glu	Val	Leu	Ala	Glu	Lys	Lys	His	Arg	Gln	Glu	Ala	

410	415	420
Glu Arg Gln Lys Ser Lys Lys Asp Thr Thr Cys Ile Lys Leu Lys		
425	430	435
Ile Asp Ser Glu Ile Lys Lys Thr Val Val Leu Pro Pro Ile Val		
440	445	450
Ala Ser Arg Gly Gln Ser Glu Glu Pro Ala Gly Lys Thr Lys Ser		
455	460	465
Met Gln Glu Val His Ile Lys Thr Leu Glu Glu Ile Lys Leu Glu		
470	475	480
Lys Ala Leu Arg Val Gln Gln Ser Ser Glu Ser Ser Thr Ser Ser		
485	490	495
Pro Ser Gln His Glu Ala Thr Pro Gly Ala Arg Arg Leu Leu Arg		
500	505	510
Ile Thr Lys Arg Thr Gly Met Lys Glu Glu Lys Asn Leu Gln Glu		
515	520	525
Gly Asn Glu Val Asp Ser Gln Ser Ser Ile Arg Thr Glu Ala Lys		
530	535	540
Glu Ala Ser Gly Glu Thr Thr Gly Val Asp Ile Thr Lys Ile Gln		
545	550	555
Val Lys Arg Cys Glu Thr Met Arg Glu Lys His Met Gln Lys Gln		
560	565	570
Gln Glu Arg Glu Lys Ser Val Leu Thr Pro Leu Arg Gly Asp Val		
575	580	585
Ala Ser Cys Asn Thr Gln Val Ala Glu Lys Pro Val Leu Thr Ala		
590	595	600
Val Pro Gly Ile Thr Arg His Leu Thr Lys Arg Leu Pro Thr Lys		
605	610	615
Ser Ser Gln Lys Val Glu Val Glu Thr Ser Gly Ile Gly Asp Ser		
620	625	630
Leu Leu Asn Val Lys Cys Ala Ala Gln Thr Leu Glu Lys Arg Gly		
635	640	645
Lys Ala Lys Pro Lys Val Asn Val Lys Pro Ser Val Val Lys Val		
650	655	660
Val Ser Ser Pro Lys Leu Ala Pro Lys Arg Lys Ala Val Glu Met		
665	670	675
His Ala Ala Val Ile Ala Ala Val Lys Pro Leu Ser Ser Ser Ser		
680	685	690
Val Leu Gln Glu Pro Pro Ala Lys Lys Ala Ala Val Ala Val Val		
695	700	705
Pro Leu Val Ser Glu Asp Lys Ser Val Thr Val Pro Glu Ala Glu		
710	715	720
Asn Pro Arg Asp Ser Leu Val Leu Pro Pro Thr Gln Ser Ser Ser		
725	730	735
Asp Ser Ser Pro Pro Glu Val Ser Gly Pro Ser Ser Ser Gln Met		
740	745	750
Ser Met Lys Thr Arg Arg Leu Ser Ser Ala Ser Thr Gly Lys Pro		
755	760	765
Pro Leu Ser Val Glu Asp Asp Phe Glu Lys Leu Ile Trp Glu Ile		
770	775	780
Ser Gly Gly Lys Leu Glu Ala Glu Ile Asp Leu Asp Pro Gly Lys		
785	790	795
Asp Glu Asp Asp Leu Leu Leu Glu Leu Ser Glu Met Ile Asp Ser		
800	805	810

<211> 549
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1378134

<400> 13
Met Arg Arg Arg Ala Ser Asn Ala Ala Ala Ala His Thr Ile
1 5 10 15
Gly Gly Ser Lys His Thr Met Asn Asp His Leu His Val Gly Ser
20 25 30
His Ala His Gly Gln Ile Gln Val Arg Gln Leu Phe Glu Asp Asn
35 40 45
Ser Asn Lys Arg Thr Val Leu Thr Thr Gln Pro Asn Gly Leu Thr
50 55 60
Thr Val Gly Lys Thr Gly Leu Pro Val Val Pro Glu Arg Gln Leu
65 70 75
Asp Ser Ile His Arg Arg Gln Gly Ser Ser Thr Ser Leu Lys Ser
80 85 90
Met Glu Gly Met Gly Lys Val Lys Ala Thr Pro Met Thr Pro Glu
95 100 105
Gln Ala Met Lys Gln Tyr Met Gln Lys Leu Thr Ala Phe Glu His
110 115 120
His Glu Ile Phe Ser Tyr Pro Glu Ile Tyr Phe Leu Gly Leu Asn
125 130 135
Ala Lys Lys Arg Gln Gly Met Thr Gly Gly Pro Asn Asn Gly Gly
140 145 150
Tyr Asp Asp Asp Gln Gly Ser Tyr Val Gln Val Pro His Asp His
155 160 165
Val Ala Tyr Arg Tyr Glu Val Leu Lys Val Ile Gly Lys Gly Ser
170 175 180
Phe Gly Gln Val Val Lys Ala Tyr Asp His Lys Val His Gln His
185 190 195
Val Ala Leu Lys Met Val Arg Asn Glu Lys Arg Phe His Arg Gln
200 205 210
Ala Ala Glu Glu Ile Arg Ile Leu Glu His Leu Arg Lys Gln Asp
215 220 225
Lys Asp Asn Thr Met Asn Val Ile His Met Leu Glu Asn Phe Thr
230 235 240
Phe Arg Asn His Ile Cys Met Thr Phe Glu Leu Leu Ser Met Asn
245 250 255
Leu Tyr Glu Leu Ile Lys Lys Asn Lys Phe Gln Gly Phe Ser Leu
260 265 270
Pro Leu Val Arg Lys Phe Ala His Ser Ile Leu Gln Cys Leu Asp
275 280 285
Ala Leu His Lys Asn Arg Ile Ile His Cys Asp Leu Lys Pro Glu
290 295 300
Asn Ile Leu Leu Lys Gln Gln Gly Arg Ser Gly Ile Lys Val Ile
305 310 315
Asp Phe Gly Ser Ser Cys Tyr Glu His Gln Arg Val Tyr Thr Tyr
320 325 330
Ile Gln Ser Arg Phe Tyr Arg Ala Pro Glu Val Ile Leu Gly Ala
335 340 345
Arg Tyr Gly Met Pro Ile Asp Met Trp Ser Leu Gly Cys Ile Leu

350	355	360
Ala Glu Leu Leu Thr Gly Tyr Pro Leu	Leu Pro Gly Glu Asp Glu	
365	370	375
Gly Asp Gln Leu Ala Cys Met Ile Glu	Leu Leu Gly Met Pro Ser	
380	385	390
Gln Lys Leu Leu Asp Ala Ser Lys Arg	Ala Lys Asn Phe Val Ser	
395	400	405
Ser Lys Gly Tyr Pro Arg Tyr Cys Thr	Val Thr Thr Leu Ser Asp	
410	415	420
Gly Ser Val Val Leu Asn Gly Gly Arg	Ser Arg Arg Gly Lys Leu	
425	430	435
Arg Gly Pro Pro Glu Ser Arg Glu Trp	Gly Asn Ala Leu Lys Gly	
440	445	450
Cys Asp Asp Pro Leu Phe Leu Asp Phe	Leu Lys Gln Cys Leu Glu	
455	460	465
Trp Asp Pro Ala Val Arg Met Thr Pro	Gly Gln Ala Leu Arg His	
470	475	480
Pro Trp Leu Arg Arg Leu Pro Lys	Pro Pro Thr Gly Glu Lys	
485	490	495
Thr Ser Val Lys Arg Ile Thr Glu Ser	Thr Gly Ala Ile Thr Ser	
500	505	510
Ile Ser Lys Leu Pro Pro Pro Ser Ser	Ser Ala Ser Lys Leu Arg	
515	520	525
Thr Asn Leu Ala Gln Met Thr Asp Ala	Asn Gly Asn Ile Gln Gln	
530	535	540
Arg Thr Val Leu Pro Lys Leu Val Ser		
545		

<210> 14
<211> 416
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1490070

<400> 14

Met Met Pro Gln Leu Gln Phe Lys Asp Ala Phe Trp Cys Arg Asp			
1	5	10	15
Phe Thr Ala His Thr Gly Tyr Glu Val Leu Leu Gln Arg Leu Leu			
20	25	30	
Asp Gly Arg Lys Met Cys Lys Asp Met Val Glu Leu Leu Trp Gln			
35	40	45	
Arg Ala Gln Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile			
50	55	60	
Ala Arg Lys Ala Gly Gly Gln Thr Glu Ile Asn Ser Leu Arg Ala			
65	70	75	
Ser Phe Asp Ser Leu Lys Gln Gln Met Glu Asn Val Gly Ser Ser			
80	85	90	
His Ile Gln Leu Ala Leu Thr Leu Arg Glu Glu Leu Arg Ser Leu			
95	100	105	
Glu Glu Phe Arg Glu Arg Gln Lys Glu Gln Arg Lys Lys Tyr Glu			
110	115	120	
Ala Val Met Asp Arg Val Gln Lys Ser Lys Leu Ser Leu Tyr Lys			

125	130	135
Lys Ala Met Glu Ser Lys Lys Thr Tyr	Glu Gln Lys Cys Arg Asp	
140	145	150
Ala Asp Asp Ala Glu Gln Ala Phe Glu	Arg Ile Ser Ala Asn Gly	
155	160	165
His Gln Lys Gln Val Glu Lys Ser Gln	Asn Lys Ala Arg Gln Cys	
170	175	180
Lys Asp Ser Ala Thr Glu Ala Glu Arg	Val Tyr Arg Gln Ser Ile	
185	190	195
Ala Gln Leu Glu Lys Val Arg Ala Glu	Trp Glu Gln Glu His Arg	
200	205	210
Thr Thr Cys Glu Ala Phe Gln Leu Gln	Glu Phe Asp Arg Leu Thr	
215	220	225
Ile Leu Arg Asn Ala Leu Trp Val His	Ser Asn Gln Leu Ser Met	
230	235	240
Gln Cys Val Lys Asp Asp Glu Leu Tyr	Glu Glu Val Arg Leu Thr	
245	250	255
Leu Glu Gly Cys Ser Ile Asp Ala Asp	Ile Asp Ser Phe Ile Gln	
260	265	270
Ala Lys Ser Thr Gly Thr Glu Pro Pro	Ala Pro Val Pro Tyr Gln	
275	280	285
Asn Tyr Tyr Asp Arg Glu Val Thr Pro	Leu Thr Ser Ser Pro Gly	
290	295	300
Ile Gln Pro Ser Cys Gly Met Ile Lys	Arg Phe Ser Gly Leu Leu	
305	310	315
His Gly Ser Pro Lys Thr Thr Ser Leu	Ala Ala Ser Ala Ala Ser	
320	325	330
Thr Glu Thr Leu Thr Pro Thr Pro Glu	Arg Asn Glu Gly Val Tyr	
335	340	345
Thr Ala Ile Ala Val Gln Glu Ile Gln	Gly Asn Pro Ala Ser Pro	
350	355	360
Ala Gln Glu Tyr Arg Ala Leu Tyr Asp	Tyr Thr Ala Gln Asn Pro	
365	370	375
Asp Glu Leu Asp Leu Ser Ala Gly Asp	Ile Leu Glu Val Ile Leu	
380	385	390
Glu Gly Glu Asp Gly Trp Trp Thr Val	Glu Arg Asn Gly Gln Arg	
395	400	405
Gly Phe Val Pro Gly Ser Tyr Leu Glu	Lys Leu	
410	415	

<210> 15
<211> 425
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1997814

<400> 15
Met Glu Gln Gly Leu Glu Glu Glu Glu Val Asp Pro Arg Ile
1 5 10 15
Gln Gly Glu Leu Glu Lys Leu Asn Gln Ser Thr Asp Asp Ile Asn
20 25 30
Arg Arg Glu Thr Glu Leu Glu Asp Ala Arg Gln Lys Phe Arg Ser
35 40 45

Val Leu Val Glu Ala Thr Val Lys Leu Asp Glu Leu Val Lys Lys
50 55 60
Ile Gly Lys Ala Val Glu Asp Ser Lys Pro Tyr Trp Glu Ala Arg
65 70 75
Arg Val Ala Arg Gln Ala Gln Leu Glu Ala Gln Lys Ala Thr Gln
80 85 90
Asp Phe Gln Arg Ala Thr Glu Val Leu Arg Ala Ala Lys Glu Thr
95 100 105
Ile Ser Leu Ala Glu Gln Arg Leu Leu Glu Asp Asp Lys Arg Gln
110 115 120
Phe Asp Ser Ala Trp Gln Glu Met Leu Asn His Ala Thr Gln Arg
125 130 135
Val Met Glu Ala Glu Gln Thr Lys Thr Arg Ser Glu Leu Val His
140 145 150
Lys Glu Thr Ala Ala Arg Tyr Asn Ala Ala Met Gly Arg Met Arg
155 160 165
Gln Leu Glu Lys Lys Leu Lys Arg Ala Ile Asn Lys Ser Lys Pro
170 175 180
Tyr Phe Glu Leu Lys Ala Lys Tyr Tyr Val Gln Leu Glu Gln Leu
185 190 195
Lys Lys Thr Val Asp Asp Leu Gln Ala Lys Leu Thr Leu Ala Lys
200 205 210
Gly Glu Tyr Lys Met Ala Leu Lys Asn Leu Glu Met Ile Ser Asp
215 220 225
Glu Ile His Glu Arg Arg Arg Ser Ser Ala Met Gly Pro Arg Gly
230 235 240
Cys Gly Val Gly Ala Glu Gly Ser Ser Thr Ser Val Glu Asp Leu
245 250 255
Pro Gly Ser Lys Pro Glu Pro Asp Ala Ile Ser Val Ala Ser Glu
260 265 270
Ala Phe Glu Asp Asp Ser Cys Ser Asn Phe Val Ser Glu Asp Asp
275 280 285
Ser Glu Thr Gln Ser Val Ser Ser Phe Ser Ser Gly Pro Thr Ser
290 295 300
Pro Ser Glu Met Pro Asp Gln Phe Pro Ala Val Val Arg Pro Gly
305 310 315
Ser Leu Asp Leu Pro Ser Pro Val Ser Leu Ser Glu Phe Gly Met
320 325 330
Met Phe Pro Val Leu Gly Pro Arg Ser Glu Cys Ser Gly Ala Ser
335 340 345
Ser Pro Glu Cys Glu Val Glu Arg Gly Asp Arg Ala Glu Gly Ala
350 355 360
Glu Asn Lys Thr Ser Asp Lys Ala Asn Asn Asn Arg Gly Leu Ser
365 370 375
Ser Ser Ser Gly Ser Gly Ser Ser Lys Ser Gln Ser Ser Thr
380 385 390
Ser Pro Glu Gly Gln Ala Leu Glu Asn Arg Met Lys Gln Leu Ser
395 400 405
Leu Gln Cys Ser Lys Gly Arg Asp Gly Ile Ile Ala Asp Ile Lys
410 415 420
Met Val Gln Ile Gly
425

<210> 16
<211> 1135

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 2299715

<400> 16

Met	Ala	Asn	Asp	Ser	Pro	Ala	Lys	Ser	Leu	Val	Asp	Ile	Asp	Leu	
1				5					10					15	
Ser	Ser	Leu	Arg	Asp	Pro	Ala	Gly	Ile	Phe	Glu	Leu	Val	Glu	Val	
								20		25				30	
Val	Gly	Asn	Gly	Thr	Tyr	Gly	Gln	Val	Tyr	Lys	Gly	Arg	His	Val	
							35			40				45	
Lys	Thr	Gly	Gln	Leu	Ala	Ala	Ile	Lys	Val	Met	Asp	Val	Thr	Glu	
							50			55				60	
Asp	Glu	Glu	Glu	Ile	Lys	Leu	Glu	Ile	Asn	Met	Leu	Lys	Lys		
					65				70				75		
Tyr	Ser	His	His	Arg	Asn	Ile	Ala	Thr	Tyr	Tyr	Gly	Ala	Phe	Ile	
						80			85					90	
Lys	Lys	Ser	Pro	Pro	Gly	His	Asp	Asp	Gln	Leu	Trp	Leu	Val	Met	
						95			100					105	
Glu	Phe	Cys	Gly	Ala	Gly	Ser	Ile	Thr	Asp	Leu	Val	Lys	Asn	Thr	
						110			115					120	
Lys	Gly	Asn	Thr	Leu	Lys	Glu	Asp	Trp	Ile	Ala	Tyr	Ile	Ser	Arg	
						125			130					135	
Glu	Ile	Leu	Arg	Gly	Leu	Ala	His	Leu	His	Ile	His	His	Val	Ile	
						140			145					150	
His	Arg	Asp	Ile	Lys	Gly	Gln	Asn	Val	Leu	Leu	Thr	Glu	Asn	Ala	
						155			160					165	
Gly	Val	Lys	Leu	Val	Asp	Phe	Gly	Val	Ser	Ala	Gln	Leu	Asp	Arg	
						170			175					180	
Thr	Val	Gly	Arg	Arg	Asn	Thr	Phe	Ile	Gly	Thr	Pro	Tyr	Trp	Met	
						185			190					195	
Ala	Pro	Glu	Val	Ile	Ala	Cys	Asp	Glu	Asn	Pro	Asp	Ala	Thr	Tyr	
						200			205					210	
Asp	Tyr	Arg	Ser	Asp	Leu	Trp	Ser	Cys	Gly	Ile	Thr	Ala	Ile	Glu	
						215			220					225	
Met	Ala	Glu	Gly	Ala	Pro	Pro	Leu	Cys	Asp	Met	His	Pro	Met	Arg	
						230			235					240	
Ala	Leu	Phe	Leu	Ile	Pro	Arg	Asn	Pro	Pro	Pro	Arg	Leu	Lys	Ser	
						245			250					255	
Lys	Lys	Trp	Ser	Lys	Lys	Phe	Phe	Ser	Phe	Ile	Glu	Gly	Cys	Leu	
						260			265					270	
Val	Lys	Asn	Tyr	Met	Gln	Arg	Pro	Ser	Thr	Glu	Gln	Leu	Leu	Lys	
						275			280					285	
His	Pro	Phe	Ile	Arg	Asp	Gln	Pro	Asn	Glu	Arg	Gln	Val	Arg	Ile	
						290			295					300	
Gln	Leu	Lys	Asp	His	Ile	Asp	Arg	Thr	Arg	Lys	Lys	Arg	Gly	Glu	
						305			310					315	
Lys	Asp	Glu	Thr	Glu	Tyr	Glu	Tyr	Ser	Gly	Ser	Glu	Glu	Glu		
						320			325					330	
Glu	Glu	Val	Pro	Glu	Gln	Glu	Gly	Glu	Pro	Ser	Ser	Ile	Val	Asn	
						335			340					345	
Val	Pro	Gly	Glu	Ser	Thr	Leu	Arg	Arg	Asp	Phe	Leu	Arg	Leu	Gln	

350	355	360
Gln Glu Asn Lys	Glu Arg Ser Glu Ala	Leu Arg Arg Gln Gln Leu
365	370	375
Leu Gln Glu Gln Gln	Lie Arg Glu Gln	Glu Glu Tyr Lys Arg Gln
380	385	390
Leu Leu Ala Glu Arg Gln Lys Arg Ile	Glu Gln Gln Lys Glu Gln	
395	400	405
Arg Arg Arg Leu Glu Glu Gln Arg	Arg Arg Glu Arg Ala Arg	
410	415	420
Arg Gln Gln Glu Arg Glu Gln Arg Arg	Arg Glu Gln Glu Glu Lys	
425	430	435
Arg Arg Leu Glu Glu Leu Glu Arg Arg	Arg Lys Glu Glu Glu Glu	
440	445	450
Arg Arg Arg Ala Glu Glu Glu Lys Arg Arg	Val Glu Arg Glu Gln	
455	460	465
Glu Tyr Ile Arg Arg Gln Leu Glu Glu	Gln Arg His Leu Glu	
470	475	480
Val Leu Gln Gln Gln Leu Leu Gln Glu	Gln Ala Met Leu Leu His	
485	490	495
Asp His Arg Arg Pro His Pro Gln His	Ser Gln Gln Pro Pro Pro	
500	505	510
Pro Gln Gln Glu Arg Ser Lys Pro Ser	Phe His Ala Pro Glu Pro	
515	520	525
Lys Ala His Tyr Glu Pro Ala Asp Arg	Ala Arg Glu Val Pro Val	
530	535	540
Arg Thr Thr Ser Arg Ser Pro Val Leu	Ser Arg Arg Asp Ser Pro	
545	550	555
Leu Gln Gly Ser Gly Gln Gln Asn Ser	Gln Ala Gly Gln Arg Asn	
560	565	570
Ser Thr Ser Ile Glu Pro Arg Leu Leu	Trp Glu Arg Val Glu Lys	
575	580	585
Leu Val Pro Arg Pro Gly Ser Gly Ser	Ser Ser Gly Ser Ser Asn	
590	595	600
Ser Gly Ser Gln Pro Gly Ser His Pro	Gly Ser Gln Ser Gly Ser	
605	610	615
Gly Glu Arg Phe Arg Val Arg Ser Ser	Ser Lys Ser Glu Gly Ser	
620	625	630
Pro Ser Gln Arg Leu Glu Asn Ala Val	Lys Lys Pro Glu Asp Lys	
635	640	645
Lys Glu Val Phe Arg Pro Leu Lys Pro	Ala Asp Leu Thr Ala Leu	
650	655	660
Ala Lys Glu Leu Arg Ala Val Glu Asp	Val Arg Pro Pro His Lys	
665	670	675
Val Thr Asp Tyr Ser Ser Ser Glu	Glu Ser Gly Thr Thr Asp	
680	685	690
Glu Glu Asp Asp Asp Val Glu Gln Glu	Gly Ala Asp Glu Ser Thr	
695	700	705
Ser Gly Pro Glu Asp Thr Arg Ala Ala	Ser Ser Leu Asn Leu Ser	
710	715	720
Asn Gly Glu Thr Glu Ser Val Lys Thr	Met Ile Val His Asp Asp	
725	730	735
Val Glu Ser Glu Pro Ala Met Thr Pro	Ser Lys Glu Gly Thr Leu	
740	745	750
Ile Val Arg Gln Thr Gln Ser Ala Ser	Ser Thr Leu Gln Lys His	
755	760	765
Lys Ser Ser Ser Phe Thr Pro Phe Ile	Asp Pro Arg Leu Leu	

770	775	780
Gln Ile Ser Pro Ser Ser Gly Thr Thr Val Thr Ser Val Val Gly		
785	790	795
Phe Ser Cys Asp Gly Met Arg Pro Glu Ala Ile Arg Gln Asp Pro		
800	805	810
Thr Arg Lys Gly Ser Val Val Asn Val Asn Pro Thr Asn Thr Arg		
815	820	825
Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys Tyr Lys Lys Arg Phe		
830	835	840
Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val Asn Leu Leu		
845	850	855
Val Gly Thr Glu Ser Gly Leu Met Leu Leu Asp Arg Ser Gly Gln		
860	865	870
Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg Arg Phe Gln Gln Met		
875	880	885
Asp Val Leu Glu Gly Leu Asn Val Leu Val Thr Ile Ser Gly Lys		
890	895	900
Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser Trp Leu Arg Asn Lys		
905	910	915
Ile Leu His Asn Asp Pro Glu Val Glu Lys Lys Gln Gly Trp Thr		
920	925	930
Thr Val Gly Asp Leu Glu Gly Cys Val His Tyr Lys Val Val Lys		
935	940	945
Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala Leu Lys Ser Ser Val		
950	955	960
Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr His Lys Phe Met Ala		
965	970	975
Phe Lys Ser Phe Gly Glu Leu Val His Gly Ser Cys Ala Gly Phe		
980	985	990
His Ala Val Asp Val Asp Ser Gly Ser Val Tyr Asp Ile Tyr Leu		
995	1000	1005
Pro Thr His Ile Gln Cys Ser Ile Lys Pro His Ala Ile Ile Ile		
1010	1015	1020
Leu Pro Asn Thr Asp Gly Met Glu Leu Leu Val Cys Tyr Glu Asp		
1025	1030	1035
Glu Gly Val Tyr Val Asn Thr Tyr Gly Arg Ile Thr Lys Asp Val		
1040	1045	1050
Val Leu Gln Trp Gly Glu Met Pro Thr Ser Val Ala Tyr Ile Arg		
1055	1060	1065
Ser Asn Gln Thr Met Gly Trp Gly Glu Lys Ala Ile Glu Ile Arg		
1070	1075	1080
Ser Val Glu Thr Gly His Leu Asp Gly Val Phe Met His Lys Arg		
1085	1090	1095
Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg Asn Asp Lys Val Phe		
1100	1105	1110
Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln Val Tyr Phe Met		
1115	1120	1125
Thr Leu Gly Arg Thr Ser Leu Leu Ser Trp		
1130	1135	

<210> 17
 <211> 228
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 209854

<400> 17

Met	Pro	Thr	Asn	Cys	Ala	Ala	Gly	Cys	Ala	Thr	Thr	Tyr	Asn	
1				5				10					15	
Lys	His	Ile	Asn	Ile	Ser	Phe	His	Arg	Phe	Pro	Leu	Asp	Pro	Lys
				20				25					30	
Arg	Arg	Lys	Glu	Trp	Val	Arg	Leu	Val	Arg	Arg	Lys	Asn	Phe	Val
				35				40					45	
Pro	Gly	Lys	His	Thr	Phe	Leu	Cys	Ser	Lys	His	Phe	Glu	Ala	Ser
	50							55					60	
Cys	Phe	Asp	Leu	Thr	Gly	Gln	Thr	Arg	Arg	Leu	Lys	Met	Asp	Ala
	65							70					75	
Val	Pro	Thr	Ile	Phe	Asp	Phe	Cys	Thr	His	Ile	Lys	Ser	Met	Lys
	80							85					90	
Leu	Lys	Ser	Arg	Asn	Leu	Leu	Lys	Lys	Asn	Asn	Ser	Cys	Ser	Pro
	95							100					105	
Ala	Gly	Pro	Ser	Asn	Leu	Lys	Ser	Asn	Ile	Ser	Ser	Gln	Gln	Val
	110							115					120	
Leu	Leu	Glu	His	Ser	Tyr	Ala	Phe	Arg	Asn	Pro	Met	Glu	Ala	Lys
	125							130					135	
Lys	Arg	Ile	Ile	Lys	Leu	Glu	Lys	Glu	Ile	Ala	Ser	Leu	Arg	Arg
	140							145					150	
Lys	Met	Lys	Thr	Cys	Leu	Gln	Lys	Glu	Arg	Arg	Ala	Thr	Arg	Arg
	155							160					165	
Trp	Ile	Lys	Ala	Thr	Cys	Leu	Val	Lys	Asn	Leu	Glu	Ala	Asn	Ser
	170							175					180	
Val	Leu	Pro	Lys	Gly	Thr	Ser	Glu	His	Met	Leu	Pro	Thr	Ala	Leu
	185							190					195	
Ser	Ser	Leu	Pro	Leu	Glu	Asp	Phe	Lys	Ile	Leu	Glu	Gln	Asp	Gln
	200							205					210	
Gln	Asp	Lys	Thr	Leu	Leu	Ser	Leu	Asn	Leu	Lys	Gln	Thr	Lys	Ser
	215							220					225	
Thr	Phe	Ile												

<210> 18

<211> 503

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1384286

<400> 18

Met	Ala	Thr	Thr	Val	Thr	Cys	Thr	Arg	Phe	Thr	Asp	Glu	Tyr	Gln
1				5				10					15	
Leu	Tyr	Glu	Asp	Ile	Gly	Lys	Gly	Ala	Phe	Ser	Val	Val	Arg	Arg
				20				25					30	
Cys	Val	Lys	Leu	Cys	Thr	Gly	His	Glu	Tyr	Ala	Ala	Lys	Ile	Ile
				35				40					45	
Asn	Thr	Lys	Lys	Leu	Ser	Ala	Arg	Asp	His	Gln	Lys	Leu	Glu	Arg

50	55	60
Glu Ala Arg Ile Cys Arg Leu Leu Lys His Ser Asn Ile Val Arg		
65	70	75
Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val Phe		
80	85	90
Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg		
95	100	105
Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile		
110	115	120
Leu Glu Ala Val Leu His Cys His Gln Met Gly Val Val His Arg		
125	130	135
Asp Leu Lys Pro Glu Asn Leu Leu Ala Ser Lys Cys Lys Gly		
140	145	150
Ala Ala Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln		
155	160	165
Gly Asp Gln Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr		
170	175	180
Leu Ser Pro Glu Val Leu Arg Lys Glu Ala Tyr Gly Lys Pro Val		
185	190	195
Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly		
200	205	210
Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln Gln		
215	220	225
Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr		
230	235	240
Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile		
245	250	255
Asn Pro Ala Lys Arg Ile Thr Ala His Glu Ala Leu Lys His Pro		
260	265	270
Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln		
275	280	285
Glu Thr Val Glu Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu		
290	295	300
Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser		
305	310	315
Ala Ala Lys Ser Leu Leu Asn Lys Lys Ala Asp Gly Val Lys Pro		
320	325	330
His Thr Asn Ser Thr Lys Asn Ser Ala Ala Ala Thr Ser Pro Lys		
335	340	345
Gly Thr Leu Pro Pro Ala Ala Leu Glu Ser Ser Asp Ser Ala Asn		
350	355	360
Thr Thr Ile Glu Asp Glu Asp Ala Lys Ala Arg Lys Gln Glu Ile		
365	370	375
Ile Lys Thr Thr Glu Gln Leu Ile Glu Ala Val Asn Asn Gly Asp		
380	385	390
Phe Glu Ala Tyr Ala Lys Ile Cys Asp Pro Gly Leu Thr Ser Phe		
395	400	405
Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe His		
410	415	420
Arg Phe Tyr Phe Glu Asn Leu Ala Lys Asn Ser Lys Pro Ile		
425	430	435
His Thr Thr Ile Leu Asn Pro His Val His Val Ile Gly Glu Asp		
440	445	450
Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr Ile Asp Gly		
455	460	465
Gln Gly Arg Pro Arg Thr Ser Gln Ser Glu Glu Thr Arg Val Trp		

	470	475	480
His Arg Arg Asp	Gly Lys Trp Gln Asn Val His Phe His Cys Ser		
	485	490	495
Gly Ala Pro Val Ala Pro Leu Gln			
	500		

<210> 19
<211> 433
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1512656

<400> 19			
Met Thr Gly Glu Ala Gln Ala Gly Arg Lys Arg Ser Arg Ala Arg			
1	5	10	15
Pro Glu Gly Thr Glu Pro Val Arg Arg Glu Arg Thr Gln Pro Gly			
20	25	30	
Leu Gly Pro Gly Arg Ala Arg Ala Met Ala Ala Glu Ala Thr Ala			
35	40	45	
Val Ala Gly Ser Gly Ala Val Gly Gly Cys Leu Ala Lys Asp Gly			
50	55	60	
Leu Gln Gln Ser Lys Cys Pro Asp Thr Thr Pro Lys Arg Arg Arg			
65	70	75	
Ala Ser Ser Leu Ser Arg Asp Ala Glu Arg Arg Ala Tyr Gln Trp			
80	85	90	
Cys Arg Glu Tyr Leu Gly Gly Ala Trp Arg Arg Val Gln Pro Glu			
95	100	105	
Glu Leu Arg Val Tyr Pro Val Ser Gly Gly Leu Ser Asn Leu Leu			
110	115	120	
Phe Arg Cys Ser Leu Pro Asp His Leu Pro Ser Val Gly Glu Glu			
125	130	135	
Pro Arg Glu Val Leu Leu Arg Leu Tyr Gly Ala Ile Leu Gln Gly			
140	145	150	
Val Asp Ser Leu Val Leu Glu Ser Val Met Phe Ala Ile Leu Ala			
155	160	165	
Glu Arg Ser Leu Gly Pro Gln Leu Tyr Gly Val Phe Pro Glu Gly			
170	175	180	
Arg Leu Glu Gln Tyr Ile Pro Ser Arg Pro Leu Lys Thr Gln Glu			
185	190	195	
Leu Arg Glu Pro Val Leu Ser Ala Ala Ile Ala Thr Lys Met Ala			
200	205	210	
Gln Phe His Gly Met Glu Met Pro Phe Thr Lys Glu Pro His Trp			
215	220	225	
Leu Phe Gly Thr Met Glu Arg Tyr Leu Lys Gln Ile Gln Asp Leu			
230	235	240	
Pro Pro Thr Gly Leu Pro Glu Met Asn Leu Leu Glu Met Tyr Ser			
245	250	255	
Leu Lys Asp Glu Met Gly Asn Leu Arg Lys Leu Leu Glu Ser Thr			
260	265	270	
Pro Ser Pro Val Val Phe Cys His Asn Asp Ile Gln Glu Gly Asn			

	275	280	285											
Ile	Leu	Leu	Leu	Ser	Glu	Pro	Glu	Asn	Ala	Asp	Ser	Leu	Met	Leu
				290			295							300
Val	Asp	Phe	Glu	Tyr	Ser	Ser	Tyr	Asn	Tyr	Arg	Gly	Phe	Asp	Ile
				305			310							315
Gly	Asn	His	Phe	Cys	Glu	Trp	Val	Tyr	Asp	Tyr	Thr	His	Glu	Glu
				320			325							330
Trp	Pro	Phe	Tyr	Lys	Ala	Arg	Pro	Thr	Asp	Tyr	Pro	Thr	Gln	Glu
				335			340							345
Gln	Gln	Leu	His	Phe	Ile	Arg	His	Tyr	Leu	Ala	Glu	Ala	Lys	Lys
				350			355							360
Gly	Glu	Thr	Leu	Ser	Gln	Glu	Glu	Gln	Arg	Lys	Leu	Glu	Glu	Asp
				365			370							375
Leu	Leu	Val	Glu	Val	Ser	Arg	Tyr	Ala	Leu	Ala	Ser	His	Phe	Phe
				380			385							390
Trp	Gly	Leu	Trp	Ser	Ile	Leu	Gln	Ala	Ser	Met	Ser	Thr	Ile	Glu
				395			400							405
Phe	Gly	Tyr	Leu	Asp	Tyr	Ala	Gln	Ser	Arg	Phe	Gln	Phe	Tyr	Phe
				410			415							420
Gln	Gln	Lys	Gly	Gln	Leu	Thr	Ser	Val	His	Ser	Ser	Ser		
				425			430							

<210> 20

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2098635

<400> 20

Met	Ser	Leu	Cys	Gly	Ala	Arg	Ala	Asn	Ala	Lys	Met	Met	Ala	Ala
					1	5			10					15
Tyr	Asn	Gly	Gly	Thr	Ser	Ala	Ala	Ala	Ala	Gly	His	His	His	His
					20				25					30
His	His	His	His	Leu	Pro	His	Leu	Pro	Pro	Pro	His	Leu	Leu	His
					35				40					45
His	His	His	Pro	Gln	His	His	Leu	His	Pro	Gly	Ser	Ala	Ala	Ala
					50				55					60
Val	His	Pro	Val	Gln	Gln	His	Thr	Ser	Ser	Ala	Ala	Ala	Ala	Ala
					65				70					75
Ala														
					80				85					90
Gln	Pro	Tyr	Phe	Pro	Ser	Pro	Ala	Pro	Gly	Gln	Ala	Pro	Gly	Pro
					95				100					105
Ala	Ala	Ala	Ala	Pro	Ala	Gln	Val	Gln	Ala	Ala	Ala	Ala	Ala	Thr
					110				115					120
Val	Lys	Ala	His	His	His	Gln	His	Ser	His	His	Pro	Gln	Gln	
					125				130					135
Leu	Asp	Ile	Glu	Pro	Asp	Arg	Pro	Ile	Gly	Tyr	Gly	Ala	Phe	Gly
					140				145					150
Val	Val	Trp	Ser	Val	Thr	Asp	Pro	Arg	Asp	Gly	Lys	Arg	Val	Ala
					155				160					165
Leu	Lys	Lys	Met	Pro	Asn	Val	Phe	Gln	Asn	Leu	Val	Ser	Cys	Lys

170	175	180
Arg Val Phe Arg	Glu Leu Lys Met Leu	Cys Phe Phe Lys His Asp
185	190	195
Asn Val Leu Ser Ala	Leu Asp Ile Leu	Gln Pro Pro His Ile Asp
200	205	210
Tyr Phe Glu Glu Ile	Tyr Val Val Thr	Glu Leu Met Gln Ser Asp
215	220	225
Leu His Lys Ile Ile	Val Ser Pro Gln	Pro Leu Ser Ser Asp His
230	235	240
Val Lys Val Phe Leu	Tyr Gln Ile Leu	Arg Gly Leu Lys Tyr Leu
245	250	255
His Ser Ala Gly Ile	Leu His Arg Asp	Ile Lys Pro Gly Asn Leu
260	265	270
Leu Val Asn Ser Asn	Cys Val Leu Lys	Ile Cys Asp Phe Gly Leu
275	280	285
Ala Arg Val Glu Glu	Leu Asp Glu Ser	Arg His Met Thr Gln Glu
290	295	300
Val Val Thr Gln Tyr	Tyr Arg Ala Pro	Glu Ile Leu Met Gly Ser
305	310	315
Arg His Tyr Ser Asn	Ala Ile Asp Ile	Trp Ser Val Gly Cys Ile
320	325	330
Phe Ala Glu Leu Leu	Gly Arg Arg Ile	Leu Phe Gln Ala Gln Ser
335	340	345
Pro Ile Gln Gln Leu	Asp Leu Ile Thr	Asp Leu Leu Gly Thr Pro
350	355	360
Ser Leu Glu Ala Met	Arg Thr Ala Cys	Glu Gly Ala Lys Ala His
365	370	375
Ile Leu Arg Gly Pro	His Lys Gln Pro	Ser Leu Pro Val Leu Tyr
380	385	390
Thr Leu Ser Ser Gln	Ala Thr His Glu	Ala Val His Leu Leu Cys
395	400	405
Arg Met Leu Val Phe	Asp Pro Ser Lys	Arg Ile Ser Ala Lys Asp
410	415	420
Ala Leu Ala His Pro	Tyr Leu Asp Glu	Gly Arg Leu Arg Tyr His
425	430	435
Thr Cys Met Cys Lys	Cys Phe Ser	Thr Ser Thr Gly Arg Val
440	445	450
Tyr Thr Ser Asp Phe	Glu Pro Val Thr	Asn Pro Lys Phe Asp Asp
455	460	465
Thr Phe Glu Lys Asn	Leu Ser Ser Val	Arg Gln Val Lys Glu Ile
470	475	480
Ile His Gln Phe Ile	Leu Glu Gln Gln	Lys Gly Asn Arg Val Pro
485	490	495
Leu Cys Ile Asn Pro	Gln Ser Ala Ala	Phe Lys Ser Phe Ile Ser
500	505	510
Ser Thr Val Ala Gln	Pro Ser Glu Met	Pro Pro Ser Pro Leu Val
515	520	525
Trp Glu		

<210> 21
<211> 322
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2446646

<400> 21

Met	Glu	Gly	Ile	Ser	Asn	Phe	Lys	Thr	Pro	Ser	Lys	Leu	Ser	Glu
1														
														15
Lys	Lys	Lys	Ser	Val	Leu	Cys	Ser	Thr	Pro	Thr	Ile	Asn	Ile	Pro
														30
20														
Ala	Ser	Pro	Phe	Met	Gln	Lys	Leu	Gly	Phe	Gly	Thr	Gly	Val	Asn
														45
35														
Val	Tyr	Leu	Met	Lys	Arg	Ser	Pro	Arg	Gly	Leu	Ser	His	Ser	Pro
														60
50														
Trp	Ala	Val	Lys	Lys	Ile	Asn	Pro	Ile	Cys	Asn	Asp	His	Tyr	Arg
														75
65														
Ser	Val	Tyr	Gln	Lys	Arg	Leu	Met	Asp	Glu	Ala	Lys	Ile	Leu	Lys
														90
80														
Ser	Leu	His	His	Pro	Asn	Ile	Val	Gly	Tyr	Arg	Ala	Phe	Thr	Glu
														105
95														
Ala	Asn	Asp	Gly	Ser	Leu	Cys	Leu	Ala	Met	Glu	Tyr	Gly	Gly	Glu
														120
110														
Lys	Ser	Leu	Asn	Asp	Leu	Ile	Glu	Glu	Arg	Tyr	Lys	Ala	Ser	Gln
														135
125														
Asp	Pro	Phe	Pro	Ala	Ala	Ile	Ile	Leu	Lys	Val	Ala	Leu	Asn	Met
														150
140														
Ala	Arg	Gly	Leu	Lys	Tyr	Leu	His	Gln	Glu	Lys	Lys	Leu	Leu	His
														165
155														
Gly	Asp	Ile	Lys	Ser	Ser	Asn	Val	Val	Ile	Lys	Gly	Asp	Phe	Glu
														180
170														
Thr	Ile	Lys	Ile	Cys	Asp	Val	Gly	Val	Ser	Leu	Pro	Leu	Asp	Glu
														195
185														
Asn	Met	Thr	Val	Thr	Asp	Pro	Glu	Ala	Cys	Tyr	Ile	Gly	Thr	Glu
														210
200														
Pro	Trp	Lys	Pro	Lys	Glu	Ala	Val	Glu	Glu	Asn	Gly	Val	Ile	Thr
														225
215														
Asp	Lys	Ala	Asp	Ile	Phe	Ala	Phe	Gly	Leu	Thr	Leu	Trp	Glu	Met
														240
230														
Met	Thr	Leu	Ser	Ile	Pro	His	Ile	Asn	Leu	Ser	Asn	Asp	Asp	Asp
														255
245														
Asp	Glu	Asp	Lys	Thr	Phe	Asp	Glu	Ser	Asp	Phe	Asp	Asp	Glu	Ala
														270
260														
Tyr	Tyr	Ala	Ala	Leu	Gly	Thr	Arg	Pro	Pro	Ile	Asn	Met	Glu	Glu
														285
275														
Leu	Asp	Glu	Ser	Tyr	Gln	Lys	Val	Ile	Glu	Leu	Phe	Ser	Val	Cys
														300
290														
Thr	Asn	Glu	Asp	Pro	Lys	Asp	Arg	Pro	Ser	Ala	Ala	His	Ile	Val
														315
305														
Glu	Ala	Leu	Glu	Thr	Asp	Val								
320														

<210> 22

<211> 802

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2764911

<400> 22

Met Glu Glu Glu Gly Gly Ser Ser Gly Gly Ala Ala Gly Thr Ser
1 5 10 15
Ala Asp Gly Gly Asp Gly Gly Glu Gln Leu Leu Thr Val Lys His
20 25 30
Glu Leu Arg Thr Ala Asn Leu Thr Gly His Ala Glu Lys Val Gly
35 40 45
Ile Glu Asn Phe Glu Leu Leu Lys Val Leu Gly Thr Gly Ala Tyr
50 55 60
Gly Lys Val Phe Leu Val Arg Lys Ile Ser Gly His Asp Thr Gly
65 70 75
Lys Leu Tyr Ala Met Lys Val Leu Lys Lys Ala Thr Ile Val Gln
80 85 90
Lys Ala Lys Thr Thr Glu His Thr Arg Thr Glu Arg Gln Val Leu
95 100 105
Glu His Ile Arg Gln Ser Pro Phe Leu Val Thr Leu His Tyr Ala
110 115 120
Phe Gln Thr Glu Thr Lys Leu His Leu Ile Leu Asp Tyr Ile Asn
125 130 135
Gly Gly Glu Leu Phe Thr His Leu Ser Gln Arg Glu Arg Phe Thr
140 145 150
Glu His Glu Val Gln Ile Tyr Val Gly Glu Ile Val Leu Ala Leu
155 160 165
Glu His Leu His Lys Leu Gly Ile Ile Tyr Arg Asp Ile Lys Leu
170 175 180
Glu Asn Ile Leu Leu Asp Ser Asn Gly His Val Val Leu Thr Asp
185 190 195
Phe Gly Leu Ser Lys Glu Phe Val Ala Asp Glu Thr Glu Arg Ala
200 205 210
Tyr Ser Phe Cys Gly Thr Ile Glu Tyr Met Ala Pro Asp Ile Val
215 220 225
Arg Gly Gly Asp Ser Gly His Asp Lys Ala Val Asp Trp Trp Ser
230 235 240
Leu Gly Val Leu Met Tyr Glu Leu Leu Thr Gly Ala Ser Pro Phe
245 250 255
Thr Val Asp Gly Glu Lys Asn Ser Gln Ala Glu Ile Ser Arg Arg
260 265 270
Ile Leu Lys Ser Glu Pro Pro Tyr Pro Gln Glu Met Ser Ala Leu
275 280 285
Ala Lys Asp Leu Ile Gln Arg Leu Leu Met Lys Asp Pro Lys Lys
290 295 300
Arg Leu Gly Cys Gly Pro Arg Asp Ala Asp Glu Ile Lys Glu His
305 310 315
Leu Phe Phe Gln Lys Ile Asn Trp Asp Asp Leu Ala Ala Lys Lys
320 325 330
Val Pro Ala Pro Phe Lys Pro Val Ile Arg Asp Glu Leu Asp Val
335 340 345
Ser Asn Phe Ala Glu Glu Phe Thr Glu Met Asp Pro Thr Tyr Ser
350 355 360
Pro Ala Ala Leu Pro Gln Ser Ser Glu Lys Leu Phe Gln Gly Tyr
365 370 375
Ser Phe Val Ala Pro Ser Ile Leu Phe Lys Arg Asn Ala Ala Val
380 385 390
Ile Asp Pro Leu Gln Phe His Met Gly Val Glu Arg Pro Gly Val

395	400	405
Thr Asn Val Ala Arg Ser Ala Met Met	Lys Asp Ser Pro Phe	Tyr
410	415	420
Gln His Tyr Asp Leu Asp Leu Lys Asp	Lys Pro Leu Gly Glu	Gly
425	430	435
Ser Phe Ser Ile Cys Arg Lys Cys Val	His Lys Lys Ser Asn	Gln
440	445	450
Ala Phe Ala Val Lys Ile Ile Ser Lys	Arg Met Glu Ala Asn	Thr
455	460	465
Gln Lys Glu Ile Thr Ala Leu Glu Leu	Cys Glu Gly His Pro	Asn
470	475	480
Ile Val Lys Leu His Glu Val Phe His	Asp Gln Leu His Thr	Phe
485	490	495
Leu Val Met Glu Leu Leu Asn Gly Gly	Glu Leu Phe Glu Arg	Ile
500	505	510
Lys Lys Lys His Phe Ser Glu Thr	Glu Ala Ser Tyr Ile	Met
515	520	525
Arg Lys Leu Val Ser Ala Val Ser His	Met His Asp Val Gly	Val
530	535	540
Val His Arg Asp Leu Lys Pro Glu Asn	Leu Leu Phe Thr Asp	Glu
545	550	555
Asn Asp Asn Leu Glu Ile Lys Ile	Asp Phe Gly Phe Ala	Arg
560	565	570
Leu Lys Pro Pro Asp Asn Gln Pro Leu	Lys Thr Pro Cys Phe	Thr
575	580	585
Leu His Tyr Ala Ala Pro Glu Leu Leu	Asn Gln Asn Gly Tyr	Asp
590	595	600
Glu Ser Cys Asp Leu Trp Ser Leu Gly	Val Ile Leu Tyr Thr	Met
605	610	615
Leu Ser Gly Gln Val Pro Phe Gln Ser	His Asp Arg Ser Leu	Thr
620	625	630
Cys Thr Ser Ala Val Glu Ile Met Lys	Lys Ile Lys Gly Asp	
635	640	645
Phe Ser Phe Glu Gly Glu Ala Trp Lys	Asn Val Ser Gln Glu	Ala
650	655	660
Lys Asp Leu Ile Gln Gly Leu Leu Thr	Val Asp Pro Asn Lys	Arg
665	670	675
Leu Lys Met Ser Gly Leu Arg Tyr Asn	Glu Trp Leu Gln Asp	Gly
680	685	690
Ser Gln Leu Ser Ser Asn Pro Leu Met	Thr Pro Asp Ile Leu	Gly
695	700	705
Ser Ser Gly Ala Ala Val His Thr Cys	Val Lys Ala Thr Phe	His
710	715	720
Ala Phe Asn Lys Tyr Lys Arg Glu Gly	Phe Cys Leu Gln Asn	Val
725	730	735
Asp Lys Ala Pro Leu Ala Lys Arg Arg	Lys Met Lys Lys Thr	Ser
740	745	750
Thr Ser Thr Glu Thr Arg Ser Ser Ser	Gl Ser Ser His Ser	
755	760	765
Ser Ser Ser His Ser His Gly Lys Thr	Thr Pro Thr Lys Thr	Leu
770	775	780
Gln Pro Ser Asn Pro Ala Asp Ser Asn	Asn Pro Glu Thr Leu	Phe
785	790	795
Gln Phe Ser Asp Ser Val Ala		
800		

<210> 23
<211> 641
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 3013946

<400> 23
Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
1 5 10 15
Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
20 25 30
Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
35 40 45
Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg
50 55 60
Glu Ala Arg Ile Cys Arg Leu Leu Lys His Ser Asn Ile Val Arg
65 70 75
Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val Phe
80 85 90
Asp Leu Val Thr Gly Glu Leu Phe Glu Asp Ile Val Ala Arg
95 100 105
Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile
110 115 120
Leu Glu Ala Val Leu His Cys His Gln Met Gly Val Val His Arg
125 130 135
Asp Leu Lys Pro Glu Asn Leu Leu Ala Ser Lys Cys Lys Gly
140 145 150
Ala Ala Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln
155 160 165
Gly Asp Gln Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr
170 175 180
Leu Ser Pro Glu Val Leu Arg Lys Glu Ala Tyr Gly Lys Pro Val
185 190 195
Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly
200 205 210
Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln Gln
215 220 225
Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr
230 235 240
Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile
245 250 255
Asn Pro Ala Lys Arg Ile Thr Ala His Glu Ala Leu Lys His Pro
260 265 270
Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln
275 280 285
Glu Thr Val Glu Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu
290 295 300
Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser
305 310 315
Ala Lys Ser Leu Leu Asn Lys Lys Ala Asp Gly Val Lys Pro Gln
320 325 330
Thr Asn Ser Thr Lys Asn Ser Ala Ala Thr Ser Pro Lys Gly
335 340 345

Thr Leu Pro Pro Ala Ala Leu Glu Pro Gln Thr Thr Val Ile His
 350 355 360
 Asn Pro Val Asp Gly Ile Lys Glu Ser Ser Asp Ser Ala Asn Thr
 365 370 375
 Thr Ile Glu Asp Glu Asp Ala Lys Ala Pro Arg Val Pro Asp Ile
 380 385 390
 Leu Ser Ser Val Arg Arg Gly Ser Gly Ala Pro Glu Ala Glu Gly
 395 400 405
 Pro Leu Pro Cys Pro Ser Pro Ala Pro Phe Gly Pro Leu Pro Ala
 410 415 420
 Pro Ser Pro Arg Ile Ser Asp Ile Leu Asn Ser Val Arg Arg Gly
 425 430 435
 Ser Gly Thr Pro Glu Ala Glu Gly Pro Leu Ser Ala Gly Pro Pro
 440 445 450
 Pro Cys Leu Ser Pro Ala Leu Leu Gly Pro Leu Ser Ser Pro Ser
 455 460 465
 Pro Arg Ile Ser Asp Ile Leu Asn Ser Val Arg Arg Gly Ser Gly
 470 475 480
 Thr Pro Glu Ala Lys Gly Pro Ser Pro Val Gly Pro Pro Pro Cys
 485 490 495
 Pro Ser Pro Thr Ile Pro Gly Pro Leu Pro Thr Pro Ser Arg Lys
 500 505 510
 Gln Glu Ile Ile Lys Thr Thr Glu Gln Leu Ile Glu Ala Val Asn
 515 520 525
 Asn Gly Asp Phe Glu Ala Tyr Ala Lys Ile Cys Asp Pro Gly Leu
 530 535 540
 Thr Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met
 545 550 555
 Asp Phe His Arg Phe Tyr Phe Glu Asn Leu Leu Ala Lys Asn Ser
 560 565 570
 Lys Pro Ile His Thr Thr Ile Leu Asn Pro His Val His Val Ile
 575 580 585
 Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr
 590 595 600
 Ile Asp Gly Gln Gly Arg Pro Arg Thr Ser Gln Ser Glu Glu Thr
 605 610 615
 Arg Val Trp His Arg Arg Asp Gly Lys Trp Gln Asn Val His Phe
 620 625 630
 His Cys Ser Gly Ala Pro Val Ala Pro Leu Gln
 635 640

<210> 24
 <211> 588
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 067967

<400> 24
 Met Gly Gly Thr Ala Arg Gly Pro Gly Arg Lys Asp Ala Gly Pro
 1 5 10 15
 Pro Gly Ala Gly Leu Pro Pro Gln Gln Arg Arg Leu Gly Asp Gly
 20 25 30
 Val Tyr Asp Thr Phe Met Met Ile Asp Glu Thr Lys Cys Pro Pro

35	40	45
Cys Ser Asn Val	Leu Cys Asn Pro Ser	Glu Pro Pro Ser Pro Arg
50	55	60
Arg Leu Asn Met	Thr Thr Glu Gln Phe	Thr Gly Asp His Thr Gln
65	70	75
His Phe Leu Asp	Gly Gly Glu Met Lys	Val Glu Gln Leu Phe Gln
80	85	90
Glu Phe Gly Asn Arg	Lys Ser Asn Thr	Ile Gln Ser Asp Gly Ile
95	100	105
Ser Asp Ser Glu	Lys Cys Ser Pro Thr	Val Ser Gln Gly Lys Ser
110	115	120
Ser Asp Cys Leu	Asn Thr Val Lys Ser	Asn Ser Ser Ser Lys Ala
125	130	135
Pro Lys Val Val	Pro Leu Thr Pro Glu	Gln Ala Leu Lys Gln Tyr
140	145	150
Lys His His Leu	Thr Ala Tyr Glu Lys	Leu Glu Ile Ile Asn Tyr
155	160	165
Pro Glu Ile Tyr	Phe Val Gly Pro Asn Ala	Lys Lys Arg His Gly
170	175	180
Val Ile Gly Gly	Pro Asn Asn Gly Gly	Tyr Asp Asp Ala Asp Gly
185	190	195
Ala Tyr Ile His	Val Pro Arg Asp His	Leu Ala Tyr Arg Tyr Glu
200	205	210
Val Leu Lys Ile	Ile Gly Lys Gly Ser	Phe Gly Gln Val Ala Arg
215	220	225
Val Tyr Asp His	Lys Leu Arg Gln Tyr	Val Ala Leu Lys Met Val
230	235	240
Arg Asn Glu Lys	Arg Phe His Arg Gln	Ala Ala Glu Glu Ile Arg
245	250	255
Ile Leu Glu His	Leu Lys Gln Asp	Lys Thr Gly Ser Met Asn
260	265	270
Val Ile His Met	Leu Glu Ser Phe Thr	Phe Arg Asn His Val Cys
275	280	285
Met Ala Phe Glu	Leu Leu Ser Ile Asp	Leu Tyr Glu Leu Ile Lys
290	295	300
Lys Asn Lys Phe	Gln Gly Phe Ser Val	Gln Leu Val Arg Lys Phe
305	310	315
Ala Gln Ser Ile	Leu Gln Ser Leu Asp	Ala Leu His Lys Asn Lys
320	325	330
Ile Ile His Cys	Asp Leu Lys Pro Glu	Asn Ile Leu Leu Lys His
335	340	345
His Gly Arg Ser	Ser Thr Lys Val Ile Asp	Phe Gly Ser Ser Cys
350	355	360
Phe Glu Tyr Gln	Lys Leu Tyr Thr Tyr	Ile Gln Ser Arg Phe Tyr
365	370	375
Arg Ala Pro Glu	Ile Ile Leu Gly Ser	Arg Tyr Ser Thr Pro Ile
380	385	390
Asp Ile Trp Ser	Phe Gly Cys Ile Leu	Ala Glu Leu Leu Thr Gly
395	400	405
Gln Pro Leu Phe	Pro Gly Glu Asp Glu	Gly Asp Gln Leu Ala Cys
410	415	420
Met Met Glu Leu	Leu Gly Met Pro Pro	Pro Lys Leu Leu Glu Gln
425	430	435
Ser Lys Arg Ala	Lys Tyr Phe Ile Asn	Ser Lys Gly Ile Pro Arg
440	445	450
Tyr Cys Ser Val	Thr Thr Gln Ala Asp	Gly Arg Val Val Leu Val

455	460	465
Gly Gly Arg Ser Arg Arg Gly Lys Lys	Arg Gly Pro Pro Gly Ser	
470	475	480
Lys Asp Trp Gly Thr Ala Leu Lys Gly	Cys Asp Asp Tyr Leu Phe	
485	490	495
Ile Glu Phe Leu Lys Arg Cys Leu His	Trp Asp Pro Ser Ala Arg	
500	505	510
Leu Thr Pro Ala Gln Ala Leu Arg His	Pro Trp Ile Ser Lys Ser	
515	520	525
Val Pro Arg Pro Leu Thr Thr Ile Asp	Lys Val Ser Gly Lys Arg	
530	535	540
Val Val Asn Pro Ala Ser Ala Phe Gln	Gly Leu Gly Ser Lys Leu	
545	550	555
Pro Pro Val Val Gly Ile Ala Asn Lys	Leu Lys Ala Asn Leu Met	
560	565	570
Ser Glu Thr Asn Gly Ser Ile Pro Leu	Cys Ser Val Leu Pro Lys	
575	580	585
Leu Ile Ser		

<210> 25
<211> 389
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 346275

<400> 25		
Met Ser Asp Val Cys Ser Ser Gln Arg Ala Glu His Leu		
1	5	10
Pro Gly Leu Val Pro Pro Pro Ser Gly	Met Gly Val Arg Lys Gly	
20	25	30
Ser Ser Pro Leu Lys Ser His Pro Cys Arg Glu Lys Ser Val Ser		
35	40	45
Asn Arg Arg Ser Gly Lys Thr Ile Val Arg Ser Ala Val Glu Glu		
50	55	60
Val Arg Thr Ala Gly Leu Phe Arg Ser Gly Phe Ser Glu Glu Lys		
65	70	75
Ala Thr Gly Lys Leu Phe Ala Val Lys Cys Ile Pro Lys Lys Ala		
80	85	90
Leu Lys Gly Lys Glu Ser Ser Ile Glu Asn Glu Ile Ala Val Leu		
95	100	105
Arg Lys Ile Lys His Glu Asn Ile Val Ala Leu Glu Asp Ile Tyr		
110	115	120
Glu Ser Pro Asn His Leu Tyr Leu Val Met Gln Leu Val Ser Gly		
125	130	135
Gly Glu Leu Phe Asp Arg Ile Val Glu Lys Gly Phe Tyr Thr Glu		
140	145	150
Lys Asp Ala Ser Thr Leu Ile Arg Gln Val Leu Asp Ala Val Tyr		
155	160	165
Tyr Leu His Arg Met Gly Ile Val His Arg Asp Leu Lys Pro Glu		
170	175	180
Asn Leu Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile		
185	190	195

Ser Asp Phe Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met
 200 205 210
 Ser Thr Ala Cys Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu
 215 220 225
 Ala Gln Lys Pro Tyr Ser Lys Ala Val Asp Cys Trp Ser Ile Gly
 230 235 240
 Val Ile Ala Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Asp
 245 250 255
 Glu Asn Asp Ser Lys Leu Phe Glu Gln Ile Leu Lys Ala Glu Tyr
 260 265 270
 Glu Phe Asp Ser Pro Tyr Trp Asp Asp Ile Ser Asp Ser Ala Lys
 275 280 285
 Asp Phe Ile Arg Asn Leu Met Glu Lys Asp Pro Asn Lys Arg Tyr
 290 295 300
 Thr Cys Glu Gln Ala Ala Arg His Pro Trp Ile Ala Gly Asp Thr
 305 310 315
 Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser Ala Gln Ile Arg
 320 325 330
 Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe Asn Ala Thr
 335 340 345
 Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser Ser Leu
 350 355 360
 Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala Ser
 365 370 375
 Gln Lys Asp Cys Ala Tyr Val Ala Lys Pro Glu Ser Leu Ser
 380 385

<210> 26
 <211> 343
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 283746

<400> 26
 Met Ile Gly Glu Glu Ala Met Ile Asn Tyr Glu Asn Phe Leu Lys
 1 5 10 15
 Val Gly Glu Lys Ala Gly Ala Lys Cys Lys Gln Phe Phe Thr Ala
 20 25 30
 Lys Val Phe Ala Lys Leu Leu His Thr Asp Ser Tyr Gly Arg Ile
 35 40 45
 Ser Ile Met Gln Phe Phe Asn Tyr Val Met Arg Lys Val Trp Leu
 50 55 60
 His Gln Thr Arg Ile Gly Leu Ser Leu Tyr Asp Val Ala Gly Gln
 65 70 75
 Gly Tyr Leu Arg Glu Ser Asp Leu Glu Asn Tyr Ile Leu Glu Leu
 80 85 90
 Ile Pro Thr Leu Pro Gln Leu Asp Gly Leu Glu Lys Ser Phe Tyr
 95 100 105
 Ser Phe Tyr Val Cys Thr Ala Val Arg Lys Phe Phe Phe Leu
 110 115 120
 Asp Pro Leu Arg Thr Gly Lys Ile Lys Ile Gln Asp Ile Leu Ala
 125 130 135

Cys Ser Phe Leu Asp Asp Leu Leu Glu	Leu Arg Asp Glu Glu Leu	
140	145	150
Ser Lys Glu Ser Gln Glu Thr Asn Trp	Phe Ser Ala Pro Ser Ala	
155	160	165
Leu Arg Val Tyr Gly Gln Tyr Leu Asn	Leu Asp Lys Asp His Asn	
170	175	180
Gly Met Leu Ser Lys Glu Glu Leu Ser	Arg Tyr Gly Thr Ala Thr	
185	190	195
Met Thr Asn Val Phe Leu Asp Arg Val	Phe Gln Glu Cys Leu Thr	
200	205	210
Tyr Asp Gly Glu Met Asp Tyr Lys Thr	Tyr Leu Asp Phe Val Leu	
215	220	225
Ala Leu Glu Asn Arg Lys Glu Pro Ala	Ala Leu Gln Tyr Ile Phe	
230	235	240
Lys Leu Leu Asp Ile Glu Asn Lys Gly	Tyr Leu Asn Val Phe Ser	
245	250	255
Leu Asn Tyr Phe Phe Arg Ala Ile Gln	Glu Leu Met Lys Ile His	
260	265	270
Gly Gln Asp Pro Val Ser Phe Gln Asp	Val Lys Asp Glu Ile Phe	
275	280	285
Asp Met Val Lys Pro Lys Asp Pro Leu	Lys Ile Ser Leu Gln Asp	
290	295	300
Leu Ile Asn Ser Asn Gln Gly Asp Thr	Val Thr Thr Ile Leu Ile	
305	310	315
Asp Leu Asn Gly Phe Trp Thr Tyr Glu	Asn Arg Glu Ala Leu Val	
320	325	330
Ala Asn Asp Ser Glu Asn Ser Ala Asp	Leu Asp Asp Thr	
335	340	

<210> 27

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2696537

<400> 27

Met Gly Asn Gly Met Asn Lys Ile Leu Pro	Gly Leu Tyr Ile Gly		
1	5	10	15
Asn Phe Lys Asp Ala Arg Asp Ala Glu	Gln Leu Ser Lys Asn Lys		
20	25	30	
Val Thr His Ile Leu Ser Val His Asp	Ser Ala Arg Pro Met Leu		
35	40	45	
Glu Gly Val Lys Tyr Leu Cys Ile Pro	Ala Ala Asp Ser Pro Ser		
50	55	60	
Gln Asn Leu Thr Arg His Phe Lys Glu	Ser Ile Lys Phe Ile His		
65	70	75	
Glu Cys Arg Leu Arg Gly Glu Ser Cys	Leu Val His Cys Leu Ala		
80	85	90	
Gly Val Ser Arg Ser Val Thr Leu Val	Ile Ala Tyr Ile Met Thr		
95	100	105	
Val Thr Asp Phe Gly Trp Glu Asp Ala	Leu His Thr Val Arg Ala		
110	115	120	

Gly Arg Ser Cys Ala Asn Pro Asn Val Gly Phe Gln Arg Gln Leu
125 130 135
Gln Glu Phe Glu Lys His Glu Val His Gln Tyr Arg Gln Trp Leu
140 145 150
Lys Glu Glu Tyr Gly Glu Ser Pro Leu Gln Asp Ala Glu Ala
155 160 165
Lys Asn Ile Leu Ala Ala Pro Gly Ile Leu Lys Phe Trp Ala Phe
170 175 180
Leu Arg Arg Leu

<210> 29
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 619292

<400> 29
Met Gly Leu Ile Asp Gly Met His Thr His Leu Gly Ala Pro Gly
1 5 10 15
Leu Tyr Ile Gln Thr Leu Leu Pro Gly Ser Pro Ala Ala Ala Asp
20 25 30
Gly Arg Leu Ser Leu Gly Asp Arg Ile Leu Glu Val Asn Gly Ser
35 40 45
Ser Leu Leu Gly Leu Gly Tyr Leu Arg Ala Val Asp Leu Ile Arg
50 55 60
His Gly Gly Lys Lys Met Arg Phe Leu Val Ala Lys Ser Asp Val
65 70 75
Gly Lys Gln Pro Arg Arg Ser Ile Ser Ala Arg Pro Leu Ser Arg
80 85 90
Gly Ala Ala Arg Thr Pro Pro Gln Ala Arg His Pro Val Pro Pro
95 100 105
Gly Asp Thr Gly Leu Pro Pro Ala Phe Val Pro Val Leu
110 115

<210> 30
<211> 356
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 2054049

<400> 30
Met Val Gly Val Ser Gly Lys Arg Ser Lys Glu Asp Glu Lys Tyr
1 5 10 15
Leu Gln Ala Ile Met Asp Ser Asn Ala Gln Ser His Lys Ile Phe
20 25 30
Ile Phe Asp Ala Arg Pro Ser Val Asn Ala Val Ala Asn Lys Ala
35 40 45
Lys Gly Gly Gly Tyr Glu Ser Glu Asp Ala Tyr Gln Asn Ala Glu

50	55	60
Leu Val Phe Leu Asp Ile His Asn Ile His Val Met Arg Glu Ser		
65	70	75
Leu Arg Lys Leu Lys Glu Ile Val Tyr Pro Asn Ile Glu Glu Thr		
80	85	90
His Trp Leu Ser Asn Leu Glu Ser Thr His Trp Leu Glu His Ile		
95	100	105
Lys Leu Ile Leu Ala Gly Ala Leu Arg Ile Ala Asp Lys Val Glu		
110	115	120
Ser Gly Lys Thr Ser Val Val Val His Cys Ser Asp Gly Trp Asp		
125	130	135
Arg Thr Ala Gln Leu Thr Ser Leu Ala Met Leu Met Leu Asp Gly		
140	145	150
Tyr Tyr Arg Thr Ile Arg Gly Phe Glu Val Leu Val Glu Lys Glu		
155	160	165
Trp Leu Ser Phe Gly His Arg Phe Gln Leu Arg Val Gly His Gly		
170	175	180
Asp Lys Asn His Ala Asp Ala Asp Arg Ser Pro Val Phe Leu Gln		
185	190	195
Phe Ile Asp Cys Val Trp Gln Met Thr Arg Gln Phe Pro Thr Ala		
200	205	210
Phe Glu Phe Asn Glu Tyr Phe Leu Ile Thr Ile Leu Asp His Leu		
215	220	225
Tyr Ser Cys Leu Phe Gly Thr Phe Leu Cys Asn Ser Glu Gln Gln		
230	235	240
Arg Gly Lys Glu Asn Leu Pro Lys Arg Thr Val Ser Leu Trp Ser		
245	250	255
Tyr Ile Asn Ser Gln Leu Glu Asp Phe Thr Asn Pro Leu Tyr Gly		
260	265	270
Ser Tyr Ser Asn His Val Leu Tyr Pro Val Ala Ser Met Arg His		
275	280	285
Leu Glu Leu Trp Val Gly Tyr Tyr Ile Arg Trp Asn Pro Arg Met		
290	295	300
Lys Pro Gln Glu Pro Ile His Asn Arg Tyr Lys Glu Leu Leu Ala		
305	310	315
Lys Arg Ala Glu Leu Gln Lys Lys Val Glu Glu Leu Gln Arg Glu		
320	325	330
Ile Ser Asn Arg Ser Thr Ser Ser Ser Glu Arg Ala Ser Ser Pro		
335	340	345
Ala Gln Cys Val Thr Pro Val Gln Thr Val Val		
350	355	

<210> 31
<211> 453
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 2843910

<400> 31
Met Ala Gly Ala Gly Gly Phe Gly Cys Pro Ala Gly Gly Asn Asp
1 5 10 15
Phe Gln Trp Cys Phe Ser Gln Val Lys Gly Ala Ile Asp Glu Asp

20	25	30
Val Ala Glu Ala Asp Ile Ile Ser Thr Val	Glu Phe Asn Tyr Ser	
35	40	45
Gly Asp Leu Leu Ala Thr Gly Asp Lys Gly	Gly Arg Val Val Ile	
50	55	60
Phe Gln Arg Glu Gln Glu Asn Lys Ser Arg	Pro His Ser Arg Gly	
65	70	75
Glu Tyr Asn Val Tyr Ser Thr Phe Gln Ser His	Glu Pro Glu Phe	
80	85	90
Asp Tyr Leu Lys Ser Leu Glu Ile Glu Glu	Lys Ile Asn Lys Ile	
95	100	105
Arg Trp Leu Pro Gln Gln Asn Ala Ala His	Phe Leu Leu Ser Thr	
110	115	120
Asn Asp Lys Thr Ile Lys Leu Trp Lys Ile	Ser Glu Arg Asp Lys	
125	130	135
Arg Ala Glu Gly Tyr Asn Leu Lys Asp	Glu Asp Gly Arg Leu Arg	
140	145	150
Asp Pro Phe Arg Ile Thr Ala Leu Arg Val	Pro Ile Leu Lys Pro	
155	160	165
Met Asp Leu Met Val Glu Ala Ser Pro	Arg Arg Ile Phe Ala Asn	
170	175	180
Ala His Thr Tyr His Ile Asn Ser Ile	Ser Val Asn Ser Asp His	
185	190	195
Glu Thr Tyr Leu Ser Ala Asp Asp Leu	Arg Ile Asn Leu Trp His	
200	205	210
Leu Glu Ile Thr Asp Arg Ser Phe Asn	Ile Val Asp Ile Lys Pro	
215	220	225
Ala Asn Met Glu Glu Leu Thr Glu Val	Ile Thr Ala Ala Glu Phe	
230	235	240
His Pro His Gln Cys Asn Val Phe Val	Tyr Ser Ser Ser Lys Gly	
245	250	255
Thr Ile Arg Leu Cys Asp Met Arg Ser	Ser Ala Leu Cys Asp Arg	
260	265	270
His Ser Lys Phe Phe Glu Glu Pro Glu	Asp Pro Ser Ser Arg Ser	
275	280	285
Phe Phe Ser Glu Ile Ile Ser Ser Ile	Ser Asp Val Lys Phe Ser	
290	295	300
His Ser Gly Arg Tyr Met Met Thr Arg Asp	Tyr Leu Ser Val Lys	
305	310	315
Val Trp Asp Leu Asn Met Glu Ser Arg	Pro Val Glu Thr His Gln	
320	325	330
Val His Glu Tyr Leu Arg Ser Lys Leu	Cys Ser Leu Tyr Glu Asn	
335	340	345
Asp Cys Ile Phe Asp Lys Phe Glu Cys	Cys Trp Asn Gly Ser Asp	
350	355	360
Ser Ala Ile Met Thr Gly Ser Tyr Asn	Asn Phe Phe Arg Met Phe	
365	370	375
Asp Arg Asp Thr Arg Arg Asp Val Thr	Leu Glu Ala Ser Arg Glu	
380	385	390
Ser Ser Lys Pro Arg Ala Ser Leu Lys	Pro Arg Lys Val Cys Thr	
395	400	405
Gly Gly Lys Arg Arg Lys Asp Glu Ile	Ser Val Asp Ser Leu Asp	
410	415	420
Phe Asn Lys Lys Ile Leu His Thr Ala	Trp His Pro Val Asp Asn	
425	430	435
Val Ile Ala Val Ala Ala Thr Asn Asn	Leu Tyr Ile Phe Gln Asp	

440

445

450

Lys Ile Asn

<210> 32
<211> 1221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 132240

<400> 32
cttttcctgg aatttctata atggaaaagtc cattagaaag tcagccctta gattcagata 60
gaagcatcaa agaatcctct tttgaagaat caaatatgt aagatccactt attgtAACAC 120
cagattgcca agaaaaagacc tcaccaaaag gtgtcgagaa ccctgctgtca caagagagta 180
accaaaaaat gtttaggtcct ccttggagg tgctgaaaac gttagcctct aaaagaaatg 240
ctgttgcctt tcgaagtttt aacagtata ttaatgcata caataactca gaaccatcca 300
gaatgaacat gacttctta gatcaatgg atatttcgtg tgcctacagt ggttcatatc 360
ccatggctat aaccctact caaaaaagaa gatcctgtat gccacatcg accccaaatc 420
agatcaagtc gggaaactcca taccgaactc cgaagagtgt gagaagaggg gtggccccg 480
ttgatgatgg gccaattcta ggaaccccg actaacctgc acctgagctg ttactaggca 540
ggcccatgg tcctcggtt gactgggtgg cacttggtt ttgcctgtt gaatttctaa 600
caggaattcc cccttcaat gatgaaacac cacaacaatg attccagaat attctgaaaa 660
gagatatccc ttggccagaa ggtgaagaaa agttatctga taatgctcaa agtgcagtag 720
aaatactttt aaccattgtat gatacaaaga gagctggat gaaagagctt aaacgtatc 780
ctctcttcag tgatgtggac tggaaaatc tgcagcatca gactatgcct ttcatcccc 840
agccagatga tgaaacagat acctcctatt ttgaagccag gaatactgct cagcacctga 900
ctgtatctgg atttagtctg tagcacaaaa atttccttt tagtctagcc ttgtgttata 960
gaatgaacct gcataattat atactcctta atactagatt gatctaaggg gaaaagatca 1020
ttattnaacc tagttcaatg tgcttttaat gtacgttaca gcttcacag agttaaaagg 1080
ctgaaaggaa tatagtcaatg aatttatctt aacctcaaaa ctgtatataa atcttcaaag 1140
ctttttcat ttattnattt tgtttattgc actttatgaa aactgaagca tcaataaaat 1200
tagaggacac taaaaaaaaaa a 1221

<210> 33
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 2180116

<400> 33
tggccaggct gggccatggc ggcgcgtggc agctcagccg ctggcaagc gcgtgctgag 60
caagctgcag tctccatcgc gggcccgccg gcccaggggc agtccccgggg ggatgcagaa 120
gcggcacgca cgcgtcaccc tcaagtatga cccgcggagg ctgcagccgc ggctggacgt 180
ggagaagtgg atcgacgggc gcctggagga gctgtaccgc ggcattggagg cagacatgcc 240
cgatgagatc aacattgtatg aatttggatg gtttagagatg gaagaggaga gaagccggaa 300
aatccaggaa ctcctgaatg catgtggaa acctgtcgag gacttcatcc aggagctgct 360
ggcaaaagctt caaggcctcc acaggcagcc cggccctccgc cagccaaagcc cctccacga 420
cggcagcctc agccccctcc aggaccgggc cccgactgct cacccctgac cctcttgac 480
tctccctgcc ccccgacgc cgcggcgtt gcttgcgtat aagttgtatt taatggattc 540

tt

542

<210> 34
<211> 2778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2548, 2557, 2645, 2722, 2557, 2762, 2765
<223> Incyte Clone Number: 2197671

<400> 34
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<213> Homo sapiens

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<213> Homo sapiens

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<221> misc_feature

<223> Incyte Clone Number: 1213802

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<213> *Homo sapiens*

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<223> Incyte Clone Number: 1378134

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<213> *Homo sapiens*

<220>
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<223> Incyte Clone Number: 209854

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<213> Homo sapiens

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<213> Homo sapiens

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 <213> Homo sapiens

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 <223> Incyte Clone Number: 2446646

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 <212> DNA
 <213> Homo sapiens

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<223> Incyte Clone Number: 2764911

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> *Homo sapiens*

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<211> 632

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte Clone Number: 619292

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